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SECTION ADP AUTOMATIC DRIVE POSITIONER С

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< PRECAUTION > PRECAUTION

PRECAUTIONS

Precautions for Removing Battery Terminal

 When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.
 NOTE:

ECU may be active for several tens of seconds after the ignition switch is turned OFF. If the battery terminal is removed before ECU stops, then a DTC detection error or ECU data corruption may occur.

• For vehicles with the 2-batteries, be sure to connect the main battery and the sub battery before turning ON the ignition switch. **NOTE:**

If the ignition switch is turned ON with any one of the terminals of main battery and sub battery disconnected, then DTC may be detected.

After installing the 12V battery, always check "Self Diagnosis Result" of all ECUs and erase DTC.
 NOTE:

The removal of 12V battery may cause a DTC detection error.

Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted.

Information necessary to service the system safely is included in the "SRS AIR BAG" and "SEAT BELT" of this Service Manual.

WARNING:

Always observe the following items for preventing accidental activation.

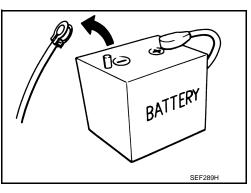
- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see "SRS AIR BAG".
- Never use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

PRECAUTIONS WHEN USING POWER TOOLS (AIR OR ELECTRIC) AND HAMMERS

WARNING:

Always observe the following items for preventing accidental activation.

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, never use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

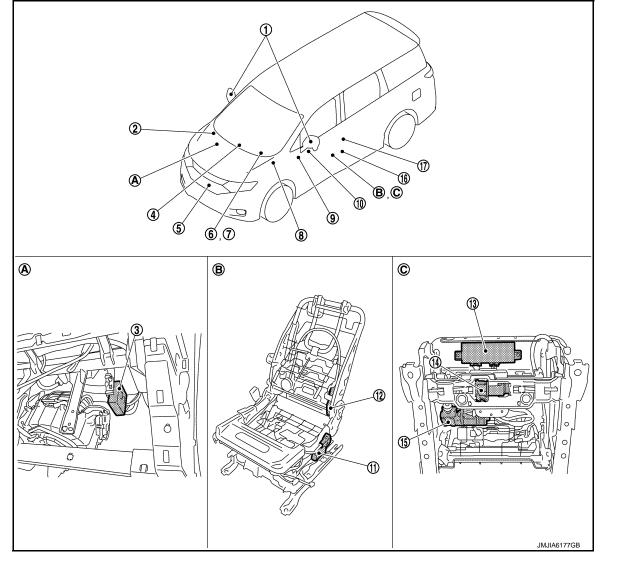


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< SYSTEM DESCRIPTION >

SYSTEM DESCRIPTION COMPONENT PARTS

Component Parts Location



A. View with instrument lower panel RH B. Vie removed ba

View with seat cushion pad and seat C. Backside of seat cushion back pad removed

No.	Compor	ent parts	Description	
		Door mirror motor	It makes mirror face operate from side to side and up and down with the electric power that automatic drive positioner control unit supplies. Refer to <u>MIR-5. "Component Parts Location"</u> for detailed installation location.	
1.	Door mirror (driver side/ passenger side)	Mirror sensor	 Mirror sensor is installed to door mirror. The resistance of 2 sensors (horizontal and vertical) is changed when door mirror is operated. Automatic drive positioner control unit calculates door mirror position according to the change of the voltage of 2 sensor input terminals. Refer to <u>MIR-5. "Component Parts Location"</u> for detailed installation location. 	

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COMPONENT PARTS

< SYSTEM DESCRIPTION >

No.	Compon	ent parts	Description
2.	ABS actuator and electric	unit (control unit)	Transmit the vehicle speed signal to driver seat control unit via CAN communication. Refer to <u>BRC-9, "Component Parts Location"</u> for detailed installation location.
3.	Automatic drive positioner	control unit	Refer to ADP-8, "Automatic Drive Positioner Control Unit".
4.	CVT sift selector (Detentio	n switch)	 Detention switch is installed on CVT shift selector. It is turned OFF when CVT shift selector is in P position. Driver seat control unit judges that CVT shift selector is in P position if continuity does not exist in this circuit. Refer to <u>TM-10</u>, "CVT CONTROL SYSTEM : Component Parts Location" for detailed installation location.
5.	ТСМ		 The following signals are transmitted to driver seat control unit via CAN communication. Shift position signal (P range) Identification of transmission: CVT Refer to <u>TM-10</u>, "CVT CONTROL SYSTEM : Component Parts Location" for detailed installation location.
6.	Combination meter		Transmit the vehicle speed signal to driver seat control unit via CAN communication. Refer to <u>MWI-6. "METER SYSTEM : Component Parts Location"</u> for detailed installation location.
7.	7. BCM		 Recognizes the following status and transmits it to driver seat control unit via CAN communication. Handle position: LHD Driver door: OPEN/CLOSE Ignition switch position: ACC/ON Door lock: UNLOCK (with Intelligent key or driver side door request switch operation) Key ID Starter: CRANKING/OTHER Refer to <u>BCS-4, "BODY CONTROL SYSTEM : Component Parts</u> Location" for detailed installation location.
8.	IPDM E/R		ON/OFF signal of CVT shift selector (detention switch) is transmit- ted to driver seat control unit via CAN communication. Refer to <u>PCS-4, "IPDM E/R : Component Parts Location"</u> for de- tailed installation location.
	Door mirror remote con-	Mirror switch	 Mirror switch is integrated in door mirror remote control switch. It operates angle of door mirror face. It transmits mirror face adjust operation to automatic drive positioner control unit. Refer to <u>MIR-5, "Component Parts Location"</u> for detailed installation location.
9.	trol switch	Changeover switch	 Changeover switch is integrated in door mirror remote control switch. Changeover switch has three positions (L, N and R). It changes operating door mirror motor by transmitting control signal to automatic drive positioner control unit. Refer to <u>MIR-5, "Component Parts Location"</u> for detailed installation location.
10.	Seat memory switch	Set switch	Refer to ADP-8, "Seat Memory Switch".

COMPONENT PARTS

< SYSTEM DESCRIPTION >

No.	Comp	onent parts	Description	
		Lifting motor (rear)	 Lifting motor (rear) is installed to seat slide cushion frame. Lifting motor (rear) is activated with driver seat control unit. Seat lifter (rear) is moved upward/downward by changing the rotation direction of lifting motor (rear). Refer to <u>SE-8. "POWER SEAT SYSTEM : Component Parts Location"</u> for detailed installation location. 	
11.	Lifting motor (rear)	Lifting sensor (rear)	 Lifting sensor (rear) is installed to seat side cushion frame. The pulse signal is input to driver seat control unit when lifting (rear) is operated. Driver seat control unit counts the pulse and calculates the lifting (rear) amount of the seat. Refer to <u>SE-8. "POWER SEAT SYSTEM : Component Parts Location"</u> for detailed installation location. 	
		Reclining motor	 Seat reclining motor is installed to seat back frame. Seat reclining motor is activated with driver seat control unit. Seatback is reclined frontward/rearward by changing the rotation direction of reclining motor. Refer to <u>SE-8. "POWER SEAT SYSTEM : Component Parts Location"</u> for detailed installation location. 	
12. Reclining moto	Reclining motor	Reclining sensor	 Reclining sensor is integrated in reclining motor. The pulse signal is input to driver seat control unit when the reclining is operated. Driver seat control unit counts the pulse and calculates the reclining amount of the seat. Refer to <u>SE-8. "POWER SEAT SYSTEM : Component Parts Location"</u> for detailed installation location. 	
13.	Driver seat control unit		Refer to ADP-8, "Driver Seat Control Unit".	
14. Sliding motor		Sliding motor	Seat sliding motor is installed to the seat cushion frame. Seat sliding motor is activated with driver seat control unit. Slides the seat frontward/ rearward by changing the rotation direction of sliding motor. Refer to <u>SE-8</u> , "POWER SEAT SYSTEM : Component Parts Location" for detailed installation location.	
	Sliding motor	Sliding sensor	 Sliding sensor is integrated in sliding motor. The pulse signal is input to driver seat control unit when sliding is performed. Driver seat control unit counts the pulse and calculates the sliding amount of the seat. Refer to <u>SE-8, "POWER SEAT SYSTEM : Component Parts Location"</u> for detailed installation location. 	
15.	Lifting motor (front)	Lifting motor (front)	 Lifting motor (front) is installed to seat side cushion frame. Lifting motor is activated with driver seat control unit. Seat lifter (front) is moved upward/downward by changing the rotation direction of lifting motor (front). Refer to <u>SE-8, "POWER SEAT SYSTEM : Component Parts Location"</u> for detailed installation location. 	
		Lifting sensor (front)	 Lifting sensor (front) is installed in lifting motor (rear). When lifting motor (rear) operates, pulse signal is transmitted to driver seat control unit from lifting sensor. Driver seat control unit counts the pulse and calculates the lift position (rear) of the seat. Refer to <u>SE-8, "POWER SEAT SYSTEM : Component Parts Location</u>" for detailed installation location. 	

COMPONENT PARTS

< SYSTEM DESCRIPTION >

No.	Compon	ent parts	Description
		Sliding switch	 Sliding switch is equipped to power seat switch on seat cushion side surface. The operation signal is input to driver seat control unit when sliding switch is operated. Refer to <u>SE-8, "POWER SEAT SYSTEM : Component Parts Location"</u> for detailed installation location.
16.	Power seat switch	Reclining switch	 The operation signal is input to driver seat control unit when reclining switch is operated. The operation signal is input to driver seat control unit when reclining switch is operated. Refer to <u>SE-8, "POWER SEAT SYSTEM : Component Parts Location"</u> for detailed installation location.
16.	Power seal switch	Lifting switch (front)	 Lifting switch (front) is equipped to power seat switch on seat cushion side surface. The operation signal is input to driver seat control unit when lifting switch (front) is operated. Refer to <u>SE-8. "POWER SEAT SYSTEM : Component Parts Location"</u> for detailed installation location.
		Lifting switch (rear)	 Lifting switch (rear) is equipped to power seat switch on seat cushion side surface. The operation signal is input to driver seat control unit when lifting switch (rear) is operated. Refer to <u>SE-8. "POWER SEAT SYSTEM : Component Parts Location"</u> for detailed installation location.
17.	Front door switch (driver side)		Detects door open/close condition and transmits to BCM. Refer to <u>DLK-18, "DOOR LOCK SYSTEM : Component Parts Lo-</u> <u>cation"</u> for detailed installation location.

Automatic Drive Positioner Control Unit

- It communicates with driver seat control unit via UART communication.
- Perform various controls with the instructions of driver seat control unit.
- Perform the controls of door mirror and seat memory switch.
- Operates door mirror with the signal from the driver seat control.

Seat Memory Switch

SET SWITCH

It is used for registration and setting change of driving position and Intelligent Key interlock function.

SEAT MEMORY SWITCH

- The maximum 2 driving positions can be registered by memory switch 1 to 2.
- Driving position is set to the registered driving position when memory switch is pressed while operation conditions are satisfied.

SEAT MEMORY INDICATOR

Memory indicator indicates the status of auto driving position system by turning ON or blinking.

Driver Seat Control Unit

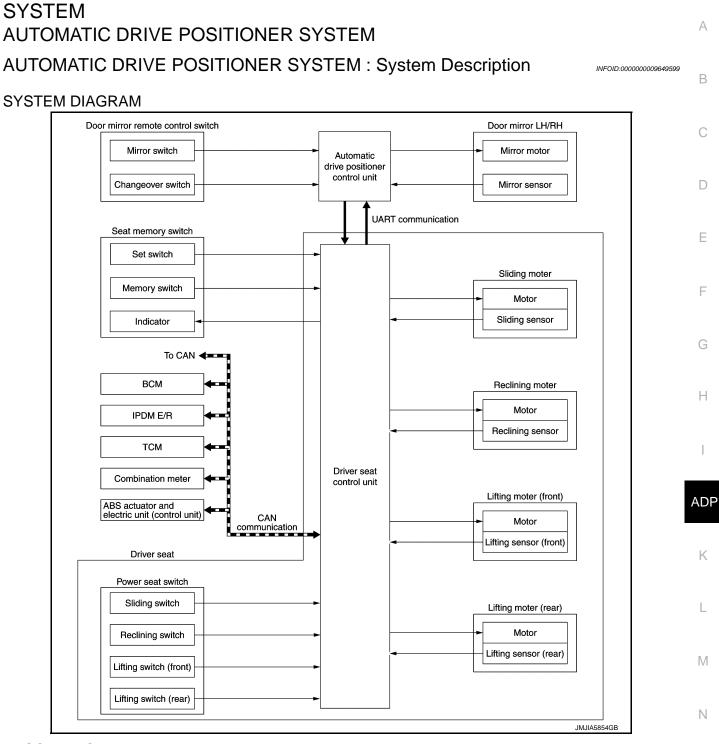
- · Main units of automatic drive positioner system.
- It is connected to the CAN.
- It communicates with automatic drive positioner control unit via UART communication.
- It perform memory function after receiving the door unlock signal from BCM.
- The address of each part is recorded.
- Operates each motor of seat to the registered position.
- Requests the operation of door mirror to automatic drive positioner control unit.
- Operates the specific seat motor with the signal from power seat switch.
- Transmits the ignition switch signal (ACC/ON) via UART communication to automatic driver positioner control unit.

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ADP-8



DESCRIPTION

The system automatically moves the driver seat and door mirror position by the driver seat control unit and the automatic drive positioner control unit. The driver seat control unit corresponds with the automatic drive positioner control unit by UART communication.

Function	Description
Manual function	The driving position (seat and door mirror position) can be adjusted by using the pow- er seat switch or door mirror remote control switch.
Memory function	The seat and door mirror move to the stored driving position by pressing seat memory switch (1 or 2).

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< SYSTEM DESCRIPTION >

Function		Description
Entry/Exit assist function Exit Entry		On exit, the seat moves backward.
		On entry, the seat returns from exiting position to the previous driving position.
Intelligent Key interlock function		Perform memory operation, exiting operation and entry operation by Intelligent Key unlock operation or driver side door request switch unlock operation.

Sleep Control

Driver seat control unit equips sleep control for reducing power consumption.

The system switches to sleep control when all of the following conditions are satisfied.

• Ignition switch is OFF.

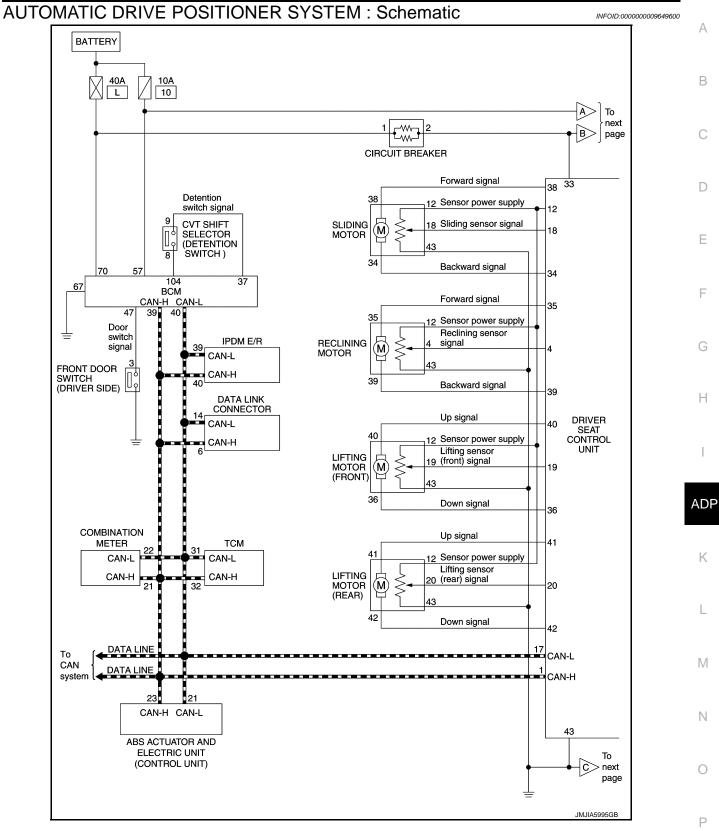
- All devices of auto driving position system are not operating.
- 45 seconds timer of driver seat control unit is not operating.
- Set switch and memory switch (1 and 2) are OFF.

Wake-up Control

Sleep control releases when detecting status change in either of the following item.

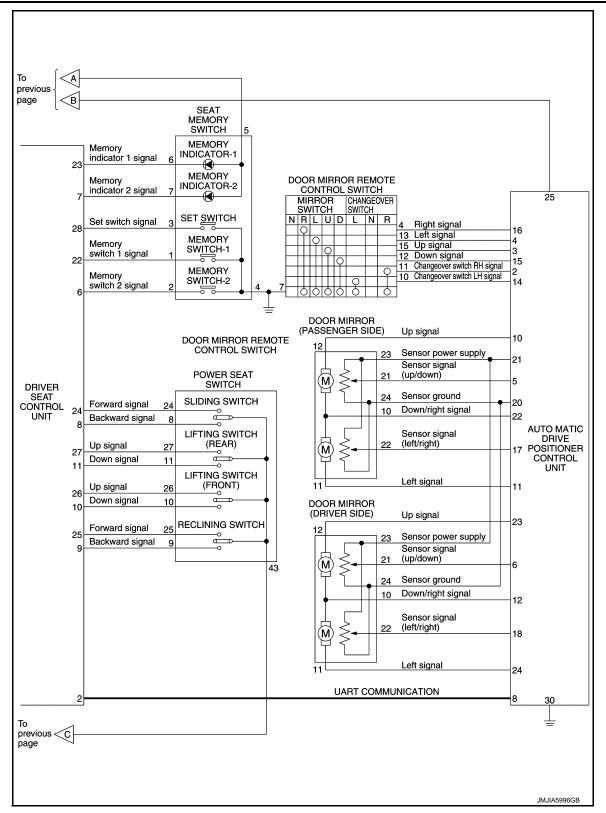
- CAN communication
- Power seat switch
- Set switch and seat memory switch (1 and 2)

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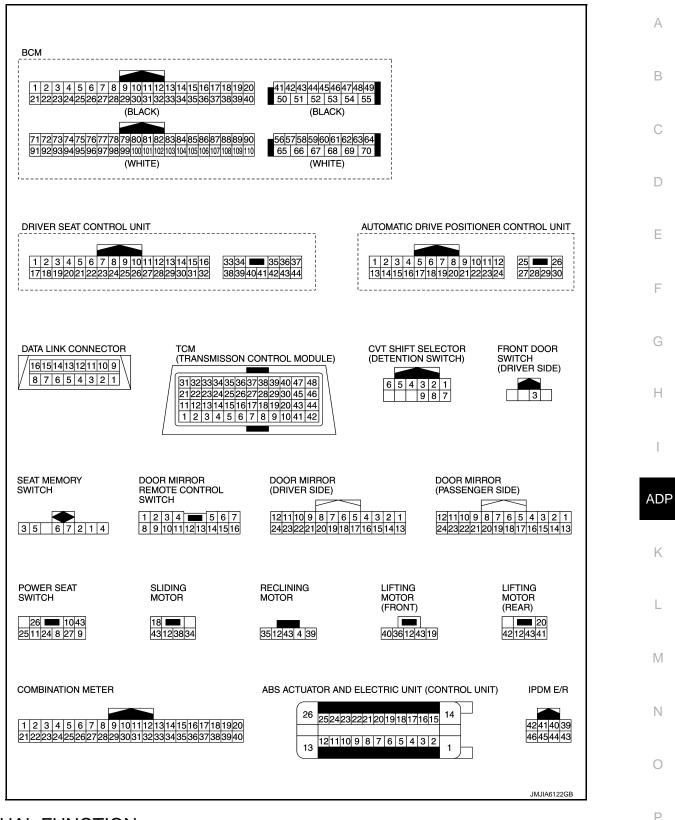




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MANUAL FUNCTION

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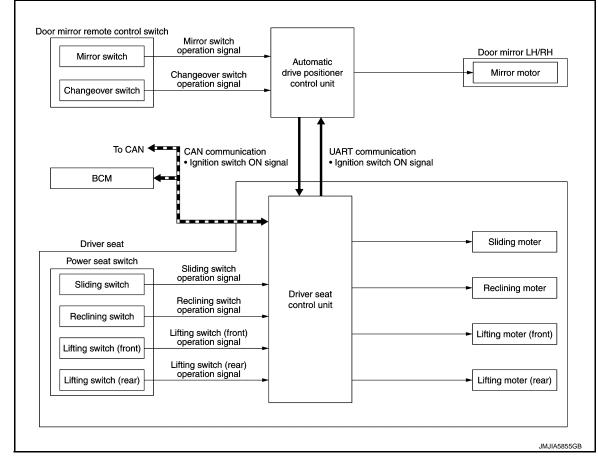
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MANUAL FUNCTION : System Description

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SYSTEM DIAGRAM



DESCRIPTION

- The driving position (seat and door mirror position) can be adjusted manually with power seat switch and door mirror remote control switch.
- The power seat can be operated manually regardless of the ignition switch position.
- The door mirrors can be operated manually when ignition switch is in either ACC or ON position.
- When power seat switch is operated, operation signal is transmitted to driver seat control unit. Each motor is
 operated according to operation signal.
- When mirror switch and changeover switch are operated, operation signal is transmitted to automatic drive positioner control unit. Mirror motor is operated according to operation signal.

MEMORY FUNCTION

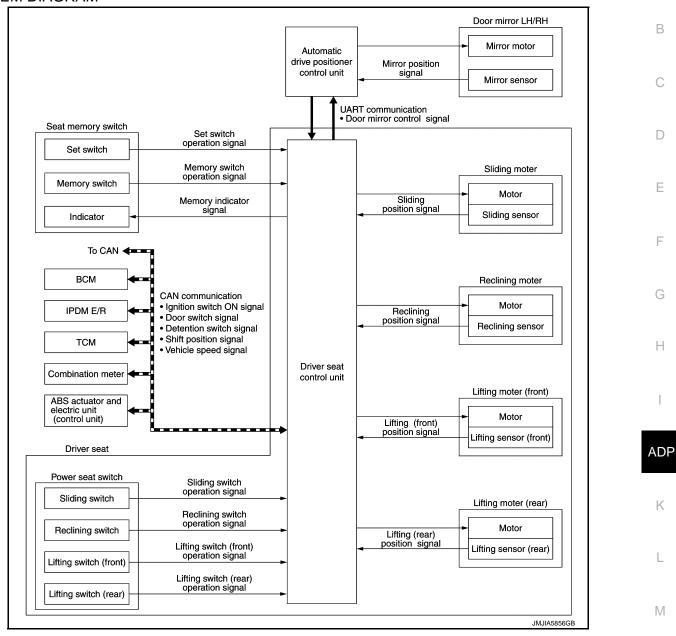
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MEMORY FUNCTION : System Description

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SYSTEM DIAGRAM



DESCRIPTION

- The driver seat control unit can store the optimum driving positions (seat and door mirror position) for 2 people. If the front seat position is changed, one-touch (pressing desired memory switch) operation allows changing to the other driving position.
- When memory switch 1 and 2 are operated, operation signal is transmitted to driver seat control unit.
- When driver seat control unit detects that memory switch is pressed for 0.5 seconds or more, driver seat control unit operates each motor of driver seat and detects the driver seat position according to signals transmitted from each sensor. Driver seat control unit requests the operation of mirror motor to automatic drive positioner control unit via UART communication.
- Automatic drive positioner control unit operates mirror motor, detects the door mirror position according to signal transmitted from mirror sensor, and transmits the detected door mirror position to driver seat control unit via UART communication.
- Driver seat control unit stops the operation of each motor when each part reaches the memorized positions.
- Driver seat control unit turns memory indicator lamp OFF that is blinking while each motor operates. **NOTE:**

Further information for the memory storage procedure. Refer to ADP-49, "Work Procedure".

ADP-15

< SYSTEM DESCRIPTION >

Operation Condition

Satisfy all of the following items. The memory function is not performed if these items are not satisfied.

Item	Request status
Ignition position	ON [*]
Switch inputs Power seat switch Door mirror control switch Set switch Memory switch 	OFF (Not operated)
CVT shift selector	P position
Memory function	Registered
Vehicle speed	0 km/h (0 MPH)
CONSULT	Not connected

*: When timer function does not operate.

Timer Function

- The memory function can be performed for 45 seconds after opening the driver door even if the ignition switch position is in OFF position.
- Satisfy all of the following items. The timer function is not performed if these items are not satisfied.

Item	Request status	
Ignition position	OFF	
Set switch/memory switch	OFF	
Memory function	Registered	
CVT shift selector	P position	
Front door switch (driver side)	OFF	
CUNSULT	Not connected	

EXIT ASSIST FUNCTION

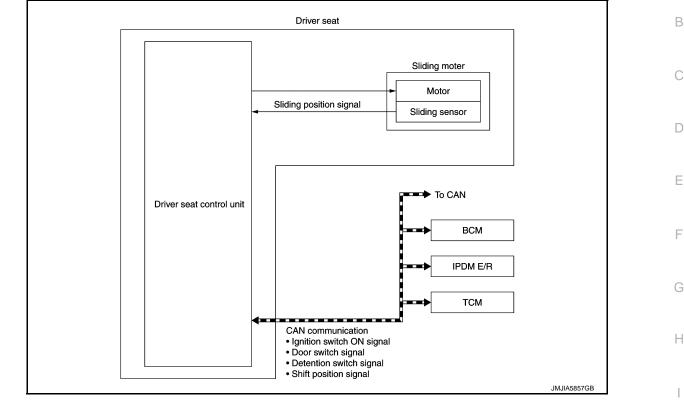
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EXIT ASSIST FUNCTION : System Description

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SYSTEM DIAGRAM



DESCRIPTION

- This function slides driver seat toward vehicle rear and facilitates entry/exit of the vehicle.
- Seat slide set amount of exit assist function is adjustable.
- When driver side door is open while operation conditions are satisfied, driver seat control unit receives front door switch (driver side) signal (open/close) from BCM via CAN communication. Driver seat control unit operates sliding motor and moves driver seat toward vehicle rear to the seat slide set amount when driver seat control unit detects that driver side door is open.
- Driver seat control unit receives sliding sensor position signal from sliding sensor. Driver seat control unit stops the operation of sliding motor when driver seat control unit detects that driver seat is slid to the seat slide set amount.

NOTE:

- This function is set to ON before delivery (initial setting).
- Further information for the system setting procedure. Refer to <u>ADP-51, "Description"</u>.

Operation Condition

Satisfy all of the following items. The exit assist function is not performed if these items are not satisfied.

Item	Request status	
Ignition position	OFF	
System setting (Entry/exit assist function)	ON	(
Initialization	Done	
Switch inputs Power seat switch Door mirror remote control switch Set switch Memory switch 	OFF (Not operated)	F
CVT shift selector	P position	
Handle position	LHD	

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< SYSTEM DESCRIPTION >

 Item
 Request status

 Transmission
 CVT

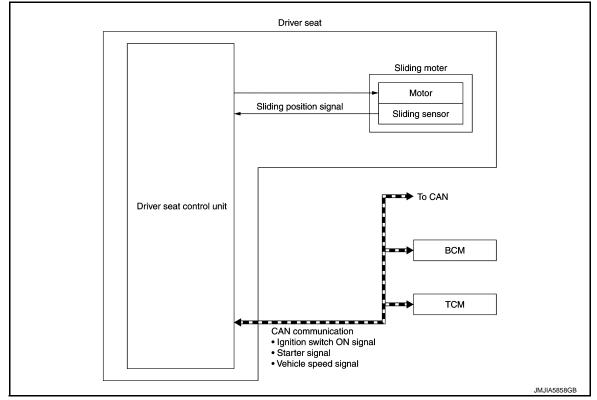
CUNSULT

Not connected

ENTRY ASSIST FUNCTION

ENTRY ASSIST FUNCTION : System Description

SYSTEM DIAGRAM



DESCRIPTION

- This function allows the driver seat control unit to return the driver seat from the exiting position to the previous driving position, when ignition switch is operated from OFF to ACC.
- Entry assist function stops when starter signal is ON while entry assist function is being operated. Entry assist function restarts when starter signal is OFF.
- When ignition switch is operated OFF to ACC while operation conditions are satisfied, driver seat control unit receives ACC signal from BCM via CAN communication. Driver seat control unit operates sliding motor when driver seat control unit detects that ignition switch is changed to ACC.
- Driver seat control unit receives sliding sensor position signal from sliding sensor. Driver seat control unit stops the operation of sliding motor when driver seat control unit detects that driver seat is returned to the previous driving position from the exiting position.

NOTE:

- This function is set to ON before delivery (initial setting).
- Further information for the system setting procedure. Refer to <u>ADP-51, "Description"</u>.

Operation Condition

Satisfy all of the following items. The entry assist function is not performed if these items are not satisfied.

Item	Request status	
The vehicle is not moved after performing the exit as		
Switch inputs Power seat switch Door mirror control switch Set switch Memory switch 	OFF (Not operated)	

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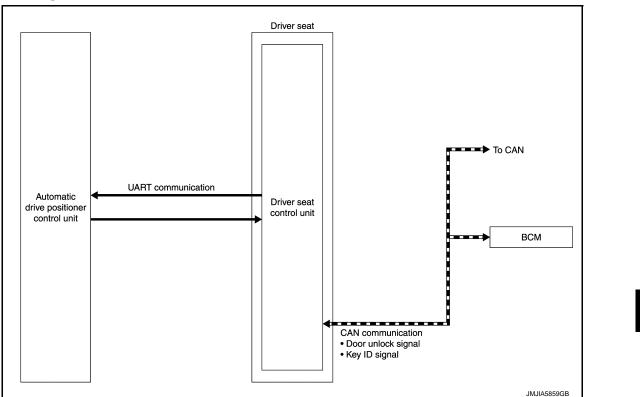
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Item	Request status	
Vehicle speed	0 km/h (0 MPH)	
Starter	OFF	
Transmission	CVT	
CONSULT	Not connected	

INTELLIGENT KEY INTERLOCK FUNCTION

INTELLIGENT KEY INTERLOCK FUNCTION : System Description

SYSTEM DIAGRAM



DESCRIPTION

- By associating Intelligent Key and automatic drive positioner system, the unlock operation of Intelligent Key or driver side door request switch performs memory function and entry/exit function.
- Registration of Intelligent Key interlock function can register a different key ID to the driver seat control unit, one by one, for memory switch 1 and 2. A total of 2 key IDs can be registered.
- Driver seat control unit receives door unlock signal and key ID signal from BCM when driver side door is unlocked using Intelligent Key or driver side door request switch.
- Driver seat control unit automatically adjusts driver seat and door mirror to the driving position according to key ID. Driver seat performs turnout position and sets to standby status.
- In standby status, when ignition switch is operated from OFF to ACC, return operation sets driver seat to the registered position.

NOTE:

- When another key ID is newly registered to a key switch to which a key ID is already registered, the previously registered key ID is overwritten and becomes unusable.
- When starter signal turns ON during return operation, the operation is interrupted, starter signal turns from PON to OFF, and operation restarts.
- Further information for Intelligent Key interlock function. Refer to ADP-50. "Description".

Operation Condition

Satisfy all of the following items. The Intelligent Key interlock function is not performed if these items are not satisfied.

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< SYSTEM DESCRIPTION >

Item	Request status	
Ignition position	OFF	
Intelligent key interlock function	Registered	
Switch inputs Power seat switch Door mirror control switch Set switch Memory switch 	OFF (Not operated)	
CVT shift selector	P position	

Fail-safe

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The fail-safe mode may be activated if the following symptoms are observed.

Operating in fail-safe mode	Malfunction Item	Related DTC	Diagnosis
	CAN communication	U1000	ADP-52, "DTC Logic"
Only manual functions operate normally.	CONTROL UNIT (CAN)	U1010	ADP-53, "DTC Logic"
	EEPROM	B2130	ADP-57, "DTC Logic"
Only manual functions, except door mirror, operate normally.	UART communication	B2128	ADP-56, "DTC Logic"
Only manual functions, except seat sliding, operate normally.	Seat sliding output	B2112	ADP-54, "DTC Logic"
Only manual functions, except seat reclining, operate normally.	Seat reclining output	B2113	ADP-55, "DTC Logic"

DIAGNOSIS SYSTEM (DRIVER SEAT CONTROL UNIT)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (DRIVER SEAT CONTROL UNIT)

CONSULT Function

The automatic drive positioner system can be checked and diagnosed for component operation using CON- $_{\mbox{\scriptsize B}}$ SULT.

APPLICATION ITEMS

Diagnostic mode	Description
Ecu Identification	Displays part numbers of driver seat control unit.
Self Diagnostic Result	Performs self-diagnosis for the auto drive positioner system and displays the results.
Data Monitor	Displays input signals transmitted from various switches and sensors to driver seat control unit in real time.
Active Test	Drives each output unit.
Work support	Changes the setting for each system function.

SELF-DIAGNOSIS RESULTS

Refer to ADP-30, "DTC Index".

DATA MONITOR

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Monitor Item	Unit	Main Signals	Selection From Menu	Contents	
STARTER SW	"ON/OFF"	×	×	Ignition key switch ON (START, ON) /OFF (ACC, OFF) status judged from the ignition switch signal.	
SET SW	"ON/OFF"	×	×	ON/OFF status judged from the setting switch signal.	
MEMORY SW 1	"ON/OFF"	×	×	ON/OFF status judged from the seat memory switch 1 signal.	
MEMORY SW 2	"ON/OFF"	×	×	ON/OFF status judged from the seat memory switch 2 signal.	
DETENT SW	"ON/OFF"	×	×	The CVT shift selector position "OFF (P position) / ON (oth- er than P position)" judged from the detention switch signal.	
STEERING STATUS	"LOCK/UN- LOCK"	×	×	NOTE: This item is indicated, but not monitored.	
SLIDE SW-FR	"ON/OFF"	×	×	ON/OFF status judged from the sliding switch (forward) sig- nal.	
SLIDE SW-RR	"ON/OFF"	×	×	ON/OFF status judged from the sliding switch (backward) signal.	
RECLN SW-FR	"ON/OFF"	×	×	ON/OFF status judged from the reclining switch (forward) signal.	
RECLN SW-RR	"ON/OFF"	×	×	ON/OFF status judged from the reclining switch (backward) signal.	
LIFT FR SW-UP	"ON/OFF"	×	×	ON/OFF status judged from the lifting switch front (up) signal.	
LIFT FR SW-DN	"ON/OFF"	×	×	ON/OFF status judged from the lifting switch front (down) signal.	
LIFT RR SW-UP	"ON/OFF"	×	×	ON/OFF status judged from the lifting switch rear (up) signal.	
LIFT RR SW-DN	"ON/OFF"	×	×	ON/OFF status judged from the lifting switch rear (down) signal.	
MIR CON SW-UP	"ON/OFF"	×	×	ON/OFF status judged from the mirror switch (up) signal.	

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DIAGNOSIS SYSTEM (DRIVER SEAT CONTROL UNIT)

< SYSTEM DESCRIPTION >

Monitor Item	Unit	Main Signals	Selection From Menu	Contents
MIR CON SW-DN	"ON/OFF"	×	×	ON/OFF status judged from the mirror switch (down) signal.
MIR CON SW-RH	"ON/OFF"	×	×	ON/OFF status judged from the mirror switch (right) signal.
MIR CON SW-LH	"ON/OFF"	×	×	ON/OFF status judged from the mirror switch (left) signal.
MIR CHNG SW-R	"ON/OFF"	×	×	ON/OFF status judged from the door mirror remote control switch (switching to right) signal.
MIR CHNG SW-L	"ON/OFF"	×	×	ON/OFF status judged from the door mirror remote control switch (switching to left) signal.
VEHICLE SPEED	_	×	×	Display the vehicle speed signal received from combination meter by numerical value [km/h].
P RANG SW CAN	"ON/OFF"	×	×	ON/OFF status judged from the P range switch signal.
R RANGE (CAN)	"ON/OFF"	×	×	ON/OFF status judged from the R range switch signal.
DOOR SW-FL	"ON/OFF"	×	×	ON/OFF status judged from the front door switch (driver side) signal.
DOOR SW-FR	"ON/OFF"	×	×	ON/OFF status judged from the door switch (front passen- ger side) signal.
IGN ON SW	"ON/OFF"	×	×	ON/OFF status judged from the ignition switch signal.
ACC ON SW	"ON/OFF"	×	×	ON/OFF status judged from the ACC switch signal.
KEY ON SW	"ON/OFF"	×	×	ON/OFF status judged from the key on switch signal.
KEYLESS ID	—	×	×	Key ID status judged from the key ID signal.
KYLS DR UNLK	"ON/OFF"	×	×	ON/OFF status judged from the driver side door unlock ac- tuator output switch signal.
VHCL SPEED (ABS)	"ON/OFF"	×	×	ON/OFF status judged from vehicle speed signal.
HANDLE	"RHD/LHD"	×	×	RHD/LHD status judged from handle position signal.
TRANSMISSION	"AT or CVT/ MT"	×	×	AT or CVT/MT status judged from transmission.
SLIDE PULSE	_	_	×	Value (32768) when battery connections are standard. If it moves backward, the value increases. If it moves forward, the value decreases.
RECLN PULSE	_	_	×	Value (32768) when battery connections are standard. If it moves backward, the value increases. If it moves forward, the value decreases.
LIFT FR PULSE	_	_	×	Value (32768) when battery connections are standard. If it moves DOWN, the value increases. If it moves UP, the value decreases.
LIFT RR PULSE	_	_	×	Value (32768) when battery connections are standard. If it moves DOWN, the value increases. If it moves UP, the value decreases.
MIR/SEN RH U-D	"V"	_	×	Voltage input from door mirror sensor (passenger side) up/ down is displayed.
MIR/SEN RH R-L	"V"	_	×	Voltage input from door mirror sensor (passenger side) left/ right is displayed.
MIR/SEN LH U-D	"V"	_	×	Voltage input from door mirror sensor (driver side) up/down is displayed.
MIR/SEN LH R-L	"V"	_	×	Voltage input from door mirror sensor (driver side) left/right is displayed.

ACTIVE TEST CAUTION: When driving vehicle, do not perform active test.

DIAGNOSIS SYSTEM (DRIVER SEAT CONTROL UNIT)

< SYSTEM DESCRIPTION >

Test item	Description	
SEAT SLIDE	Activates/deactivates the sliding motor.	
SEAT RECLINING	Activates/deactivates the reclining motor.	
SEAT LIFTER FR	Activates/deactivates the lifting motor (front).	
SEAT LIFTER RR	Activates/deactivates the lifting motor (rear).	
MIRROR MOTOR RH	Activates/deactivates the mirror motor (passenger side).	
MIRROR MOTOR LH	Activates/deactivates the mirror motor (driver side).	
MEMORY SW INDCTR	Turns ON/OFF the memory indicator.	

WORK SUPPORT

Work item	Content	Item	Е
SEAT SLIDE VOLUME SET		40 mm	
	The amount of seat sliding for entry/exit assist can be selected from 3 items.	80 mm	
		150 mm	F
EXIT SEAT SLIDE SETTING	Entry/exit assist (seat) can be selected:	ON	
	ON (operated) – OFF (not operated)	OFF	G

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< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION BCM (BODY CONTROL MODULE)

List of ECU Reference

INFOID:000000009649608

ECU	Reference
	BCS-40, "Reference Value"
ВСМ	BCS-62, "Fail-safe"
BCM	BCS-62, "DTC Inspection Priority Chart"
	BCS-63, "DTC Index"

< ECU DIAGNOSIS INFORMATION >

DRIVER SEAT CONTROL UNIT

Reference Value

VALUES ON THE DIAGNOSIS TOOL

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Monitor Item	Condi	tion	Value/Status		
	Oct cuvitale	Push	ON		
SET SW	Set switch	Release	OFF		
		Push	ON		
MEMORY SW1	Memory switch 1	Release	OFF		
	Maman (quitab 2	Push	ON		
MEMORY SW2	Memory switch 2	Release	OFF		
SLIDE SW-FR	Cliding owitch (forward)	Operate	ON		
SLIDE SW-FR	Sliding switch (forward)	Release	OFF		
SLIDE SW-RR	Sliding switch (backward)	Operate	ON		
SLIDE SW-RR	Silding Switch (backward)	Release	OFF		
	Baalining quitch (forward)	Operate	ON		
RECLN SW-FR	Reclining switch (forward)	Release	OFF		
RECLN SW–RR	Reclining switch (back-	Operate	ON		
RECLIN SW-RR	ward)	Release	OFF		
LIFT FR SW-UP	Lifting owitch front (up)	Operate	ON		
IFT FR SW-UP	Lifting switch front (up)	Release	OFF		
LIFT FR SW-DN	Lifting switch front (down)	Operate	ON	— A	
		Release	OFF		
	Lifting switch rear (up)	Operate	ON		
LIFT RR SW-UP		Release	OFF		
LIFT RR SW-DN	Lifting quitch roor (down)	Operate	ON		
LIFT KK SVV-DIN	Lifting switch rear (down)	Release	OFF		
MIR CON SW-UP	Mirror switch	Up	ON		
		Other than the above	OFF		
MIR CON SW-DN	Mirror switch	Down	ON		
		Other than the above	OFF		
MIR CON SW-RH	Mirror switch	Right	ON		
		Other than the above	OFF		
MIR CON SW-LH	Mirror switch	Left	ON		
		Other than the above	OFF		
MIR CHNG SW-R	Changeover switch	Right	ON		
		Other than the above	OFF		
MIR CHNG SW-L	Changeover switch	Left	ON		
	Changeover Switch	Other than the above	OFF		
DETENT SW	CVT shift selector	P position	OFF		
DETENT SW	OV I SHIIL SELECTOR	Other than the above	ON		

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< ECU DIAGNOSIS INFORMATION >

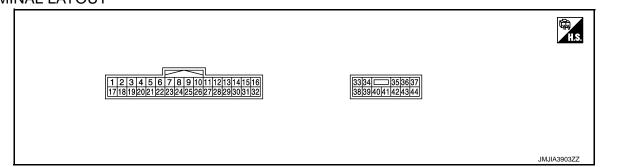
Monitor Item	Cond	ition	Value/Status
STARTER SW	Ignition position	Cranking	ON
STARTER SW	ignition position	Other than the above	OFF
		Forward	The numeral value decreases *
SLIDE PULSE	Seat sliding	Backward	The numeral value increases*
		Other than the above	No change to numeral value*
		Forward	The numeral value decreases*
RECLN PULSE	Seat reclining	Backward	The numeral value increases *
		Other than the above	No change to numeral value [*]
		Up	The numeral value decreases *
LIFT FR PULSE	Seat lifter (front)	Down	The numeral value increases *
		Other than the above	No change to numeral value [*]
		Up	The numeral value decreases *
LIFT RR PULSE	Seat lifter (rear)	Down	The numeral value increases *
		Other than the above	No change to numeral value [*]
MIR/SEN RH U-D	Door mirror (passenger sic	le)	Change between 3.4 (close to peak) 0.6 (close to valley)
MIR/SEN RH R-L	Door mirror (passenger sic	le)	Change between 3.4 (close to left edge) 0.6 (close to right edge)
MIR/SEN LH U-D	Door mirror (driver side)		Change between 3.4 (close to peak) 0.6 (close to valley)
MIR/SEN LH R-L	Door mirror (driver side)		Change between 0.6 (close to left edge) 3.4 (close to right edge)
STEERING STATUS	Steering lock unit	Unlock	NOTE: This item is indicated, but not monitored.
VEHICLE SPEED	The condition of vehicle sp	eed is displayed	km/h
P RANG SW CAN	CVT shift selector	P position	ON
F RANG SW CAN	CVT Shint Selector	Other than the above	OFF
R RANGE (CAN)	CVT shift selector	R position	ON
IN NANGE (CAN)	CVT Shint Selector	Other than the above	OFF
DOOR SW-FL	Driver door	Open	ON
DOOK SW-I L	Driver door	Close	OFF
DOOR SW-FR	Passenger door	Open	ON
DOOR SW-I K	rassenger door	Close	OFF
IGN ON SW	Ignition switch	ON position	ON
	Ignition Switch	Other than the above	OFF
ACC ON SW	Ignition switch	ACC or ON position	ON
	ignition switch	Other than the above	OFF
KEYLESS ID	UNLOCK button of Intellige	ent Key is pressed	1, 2, 3, 4 or 5
KYLS DR UNLK	Intelligent Key or driver	ON	ON
	side door request switch	OFF	OFF
VHCL SPEED (ABS)	Can signal from ABS	Received	ON
(·)		Not received	OFF
HANDLE The BCM for handle position is displayed			LHD
			RHD

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status	٨
TRANSMISSION	AT or CVT		A
I KANSINISSION		MT	

*: The value at the position attained when the battery is connected is regarded as 32768.

TERMINAL LAYOUT



PHYSICAL VALUES

Terminal No. (Wire color)		Description	Description		dition	Voltage (V)
+	-	Signal name	Input/ output	Con		vollage (v)
1 (R/Y)	_	CAN-H	_	-	_	_
2 (R)	Ground	UART communication (TX/RX)	Input	Ignition switch ON		10msec/div
4 (R/L)	Ground	Reclining sensor sig- nal	Input	Seat reclining	Operate	10mSec/div
					Other than the above	0 – 1 or 4 – 6
6		Memory switch 2 sig-			Press	0 - 1
(R/W)	Ground	nal	Input	Memory switch 2	Other than the above	4 - 6
7		Momony indicator 2		Memory indicator	Illuminate	0 - 1
7 (R/G)	Ground	Memory indicator 2 signal	Output	2	Other than the above	9 – 16
8	Ground	Sliding switch back-	Input	Sliding switch	Operate (backward)	0 - 1
(SB) Ground	ward signal	Input	Sinding switch	Other than the above	9 – 16	

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< ECU DIAGNOSIS INFORMATION >

	inal No. e color)	Description		(co.		Veltere (1)
+	-	Signal name	Input/ output	Condition		Voltage (V)
9	Ground	Reclining switch back-	Input	Reclining switch	Operate (backward)	0 – 1
(L)	Ground	ward signal	mput	Nechning Switch	Other than the above	9 – 16
10	Ground	Lifting switch (front)	Input	Lifting switch	Operate (down)	0 – 1
(L/B)	Cround	down signal	input	(front)	Other than the above	9 – 16
11	Ground	Lifting switch (rear)	Input	Lifting switch	Operate (down)	0 - 1
(L/W)	Croana	down signal	mpar	(rear)	Other than the above	9 – 16
12 (L/R)	Ground	Sensor power supply	Output	-	_	9 – 16
17 (V)		CAN-L		-	_	_
18 (B/W)	Ground	Sliding sensor signal	Input	Seat sliding	Operate	10mSec/div
					Other than the above	0 – 1 or 4 – 6
19 (B/R)	Ground	Lifting sensor (front) signal	Input	Seat lifting (front)	Operate	10mSec/div
					Other than the above	0 – 1 or 4 – 6
20 (B/L)	Ground	Lifting sensor (rear) signal	Input	Seat lifting (rear)	Operate	10mSec/div
					Other than the above	0 – 1 or 4 – 6
22 (W/L)	Ground	Memory switch 1 sig- nal	Input	Memory switch 1	Press Other than the	0 - 1 4 - 6
					above Illuminate	0 - 1
23 (W/R)	Ground	Memory indicator 1 signal	Output	Memory indicator 1	Other than the above	9 – 16

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Con	dition	Voltage (V)	A	
+	-	Signal name	Input/ output	Con	dition	voitage (v)		
24	Ground	Sliding switch forward	Input	Sliding switch	Operate (forward)	0 - 1	В	
(V/W)	Ground	signal	mput		Other than the above	9 – 16	С	
25	Ground	Reclining switch for-	Input	Reclining switch	Operate (forward)	0 – 1		
(Y/B)	Croana	ward signal	mpar		Other than the above	9 – 16	D	
26	Ground	Lifting switch (front) up	Input	Lifting switch	Operate (up)	0 - 1	Е	
(Y/R)		signal		(front)	Other than the above	9 – 16		
27	Ground	Lifting switch (rear) up	Input	Lifting switch	Operate (up)	0 - 1	F	
(Y/L)	ereana	signal		(rear)	Other than the above	9 – 16	G	
28					Press	0 - 1		
(G)	Ground	Set switch signal	Input	Set switch	Other than the above	4 - 6	Н	
33 (R)	Ground	Battery power supply	Input	-	_	9 – 16		
34	Ground	Sliding motor back- ward output signal		Output	Seat sliding	Operate (backward)	9 – 16	
(B)	Cround			Output	Coat shaing	Other than the above	0 - 1	ADP
35	Cround	Ground Reclining motor for-	Output	Seat reclining	Operate (forward)	9 – 16		
(G)	Ground	ward output signal	Output		Other than the above	0 – 1	Κ	
36	Ground	Lifting motor (front)	Output	Seat lifting (front)	Operate (down)	9 – 16	L	
(L)	Ground	down output signal	Output	Seat mung (nont)	Other than the above	0 - 1		
38	Ground	Sliding motor forward	Output	Seat sliding	Operate (forward)	9 – 16	Μ	
(GR)		output signal	Output	Seat sliding	Other than the above	0 - 1	Ν	
39	Ground	Reclining motor back-	Output	Seat reclining	Operate (backward)	9 – 16	IN	
(Y)	Ground	ward output signal	Output	Seat reclining	Other than the above	0 - 1	0	
40	Ground	Lifting motor (front) up	Outrout	Cont litting /front	Operate (up)	9 - 16	Р	
(W)		output signal	Output	Output Seat lifting (front)	Other than the above	0 – 1	٢	
41	Ground	Lifting motor (rear) up	Outrout	Cont litting (mar)	Operate (up)	9 - 16		
(V)	Ground	output signal	Output	Seat lifting (rear)	Other than the above	0 - 1		

< ECU DIAGNOSIS INFORMATION >

	inal No. e color)	Description		Con	dition	Voltage (V)
+	-	Signal name	Input/ output	Condition		voltage (v)
42	42 Cround Lifting motor (rear) Output Sect lifting (rea		Seat lifting (rear)	Operate (down)	9 – 16	
(P/B)	Ground	down output signal	Output	Seat litting (rear)	Other than the above	0 - 1
43 (LG)	Ground	Ground	—			0 – 1

Fail-safe

INFOID:000000009649610

The fail-safe mode may be activated if the following symptoms are observed.

Operating in fail-safe mode	Malfunction Item	Related DTC	Diagnosis
	CAN communication	U1000	ADP-52, "DTC Logic"
Only manual functions operate normally.	CONTROL UNIT (CAN)	U1010	ADP-53, "DTC Logic"
	EEPROM	B2130	ADP-57, "DTC Logic"
Only manual functions, except door mirror, operate normally.	UART communication	B2128	ADP-56, "DTC Logic"
Only manual functions, except seat sliding, operate normally.	Seat sliding output	B2112	ADP-54, "DTC Logic"
Only manual functions, except seat reclining, operate normally.	Seat reclining output	B2113	ADP-55, "DTC Logic"

DTC Index

INFOID:000000009649611

	Tim	ning*			
CONSULT display	Current mal- function	Previous mal- function	Item	Reference page	
CAN COMM CIRCUIT [U1000]	0	1-39	CAN communication	ADP-52, "DTC Logic"	
CONTROL UNIT (CAN) [U1010]	0	1-39	Control unit	ADP-53, "DTC Logic"	
SEAT SLIDE [B2112]	0	1-39	Seat slide motor output	ADP-54, "DTC Logic"	
SEAT RECLINING [B2113]	0	1-39	Seat reclining motor output	ADP-55, "DTC Logic"	
UART COMM [B2128]	0	1-39	UART communication	ADP-56, "DTC Logic"	
EEPROM [B2130]	0	1-39	EEPROM	ADP-57, "DTC Logic"	

*:

• 0: Current malfunction is present

• 1-39: Displayed if any previous malfunction is present when current condition is normal. The numeral value increases by one at each IGN ON to OFF cycle from 1 to 39. The counter remains at 39 even if the number of cycles exceeds it. However, the counter is reset to 1 if any malfunction is detected again, the normal operation is resumed and the ignition switch is turned from OFF to ON.

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

Reference Value

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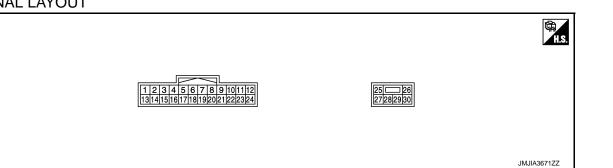
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TERMINAL LAYOUT



PHYSICAL VALUES

	iinal No. e color)	Description			ndition	Voltage (V)	
+	-	Signal name	Input/ Output	Condition		voliage (v)	
2		Changeover switch RH		Changeover	RH	0 - 1	
(Y)	Ground	signal	Input	switch position	Other than the above	4 - 6	
3	Cround	Mirror quitch up gignol	loout	Mirror switch	Operated (up)	0 – 1	
(V)	Ground	Mirror switch up signal	Input	MITTOF SWITCH	Other than the above	4 - 6	
4	Creation	Mirror quitab 154 sizes 1	ا بر م		Operated (left)	0 - 1	
(LG)	Ground	Mirror switch left signal	Input	Mirror switch	Other than the above	4 - 6	
5 (R)	Ground	Door mirror sensor (pas- senger side) up/down signal	Input	Door mirror RH position		Change between 3.4 (close to peak) 0.6 (close to valley)	
6 (V)	Ground	Door mirror sensor (driv- er side) up/down signal	Input	Door mirror LH p	osition	Change between 3.4 (close to peak) 0.6 (close to valley)	
8 (GR)	Ground	UART communication (TX/RX)	Output	Ignition switch O	N	10msec/div 10msec/div 5V/div JMJIMU WW JMJIA1391ZZ	
10	Ground	Door mirror motor (pas-	Output	Door mirror PH	Operate (up)	9 – 16	
(BR)	Giouna	nd senger side) up output Output Door mirror RH signal		Other than the above	0 – 1		
11	Ground	Door mirror motor (pas- senger side) left output	Output	Door mirror RH	Operate (left)	9 – 16	
(W) Ground	signal	Juput		Other than the above	0 - 1		

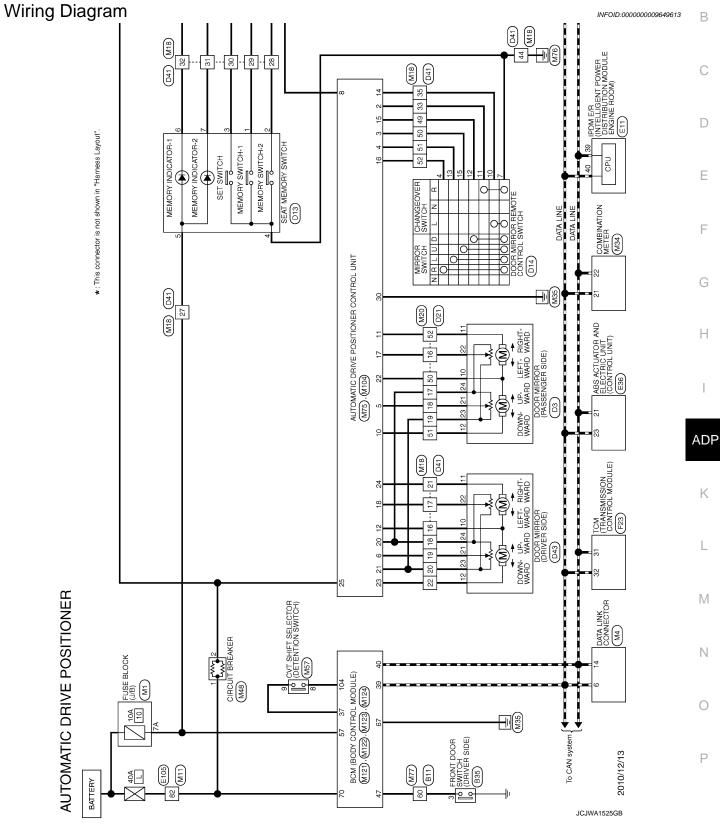
AUTOMATIC DRIVE POSITIONER CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

	inal No. e color)	Description		Car	dition	Voltage (1)
+	-	Signal name	Input/ Output	Condition		Voltage (V)
12	Ground	Door mirror motor (driver side) down/right output	Output	Door mirror (LH)	Operate (down/right)	9 – 16
(Y)	Ground	signal	Output		Other than the above	0 – 1
14		Changeover switch LH		Changeover	LH	0 - 1
(GR)	Ground	signal	Input	switch position	Other than the above	4 - 6
15	Ground	Mirror switch down sig-	logut	Mirror switch	Operate (down)	0 – 1
(O)	Giouna	nal	Input	WIND SWICH	Other than the above	4 - 6
16	0				Operate (right)	0 - 1
(W)	Ground	Mirror switch right signal	Input	Mirror switch	Other than the above	4 - 6
17 (BR)	Ground	Door mirror sensor (pas- senger side) left/right signal	Input	Door mirror RH position		Change between 3.4 (close to left edge) 0.6 (close to right edge)
18 (SB)	Ground	Door mirror sensor (driv- er side) left/right signal	Input	Door mirror LH po	osition	Change between 0.6 (close to left edge) 3.4 (close to right edge)
20 (P)	Ground	Sensor ground	_		_	0 - 1
21 (Y)	Ground	Door mirror motor sen- sor power supply	Input		_	4 - 6
22	Ground	Door mirror motor (pas-	Output		Operate (down/right)	9 – 16
(V)	Ground	senger side) down/right output signal	Output	Door mirror (RH)	Other than the above	0 - 1
23	Ground	Door mirror motor (driver	Output		Operate (up)	9 – 16
(G)	Ground	side) up output signal	Output	Door mirror (LH)	Other than the above	0 - 1
24	Ora	Door mirror motor (driver	Outrast		Operate (left)	9 – 16
(W)	Ground	side) left output signal	Output	Door mirror (LH)	Other than the above	0 - 1
25 (R)	Ground	Battery power supply	Input			9 – 16
30 (B/W)	Ground	Ground				0 – 1

< WIRING DIAGRAM >

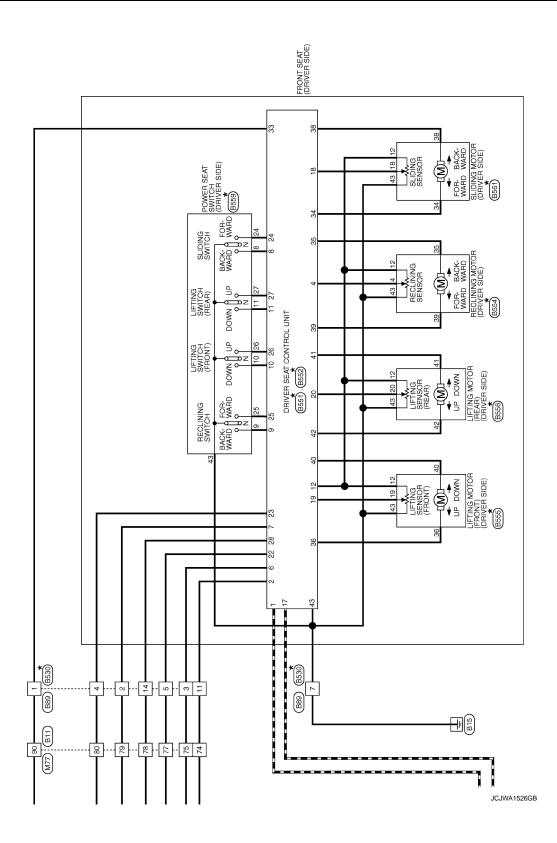
WIRING DIAGRAM AUTOMATIC DRIVE POSITIONER SYSTEM



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AUTOMATIC DRIVE POSITIONER SYSTEM

< WIRING DIAGRAM >



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D. UMT D. UMT	В
BES1 DRVER, ESAT CONTROL, UNIT NSL12FW-GS Signal Mane [Specification] Signal Mane [Specification] Signal Mane [Specification] BES2 DRVER, ESAT CONTROL, UNIT Signal Mane [Specification] Signal Mane [Specification] BES2 DRVER, ESAT CONTROL, UNIT DRVER, ESAT CONTROL, UNIT BES2 DRVER, ESAT CONTROL, UNIT DRVER, ESAT CONTROL, UNIT ERAN LIFTER MOTOR (LOWMARD) FERRA LIFTER MOTOR (LOWMARD) ERAN LIFTER MOTOR (LOWMARD) ERAN LIFTER MOTOR (LOWMARD) ERAN LIFTER MOTOR (LOWMARD) FEORIT FEORIT DRVER, ESAT CONTROL, UNIT H12] A DRVER, ESAT CONTROL, UNIT H12] A DRVER, ESAT CONTROL, UNIT ERAN LIFTER MOTOR (LOWMARD) FEORIT ERAN LIFTER MOTOR (LOWMARD) FEORIT FEORIT DRVER Signal Mane (Specification] Signal Mane (Specification] Signal Mane (Specification] ERAN LIFTER SV (DOWMARD) FEORIT FEORIT FEORIT FEORIT FEO	С
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< WIRING DIAGRAM >

AUTOMATIC DRIVE POSITIONER SYSTEM

AUTOMATIC DRIVE POSITIONER 12 U.R. SENSORPONE, SUPPLY 13 U.R. DAN-LARCE 19 B.N. PULSE (FRONT LIFTER) 20 B.L. PULSE (FRONT LIFTER) 20 B.L. PULSE (FRONT LIFTER)	Terminal No. Color Of Wire Stront Name (Specification) 12 L/R - 13 D/R - 19 D/R - 00 L -	26 Y/R 27 Y/L 43 LG		19 B 20 0 21 R 23 W 8 0 V		
	≥ 0	e 9	BJ01 SLIDING MOTOR (DRIVER SIDE) 6098-3768	ctor No.	013	_
Y/R FRONT LIFTER SW (JPWARD) Y/L REAR LIFTE SW (JPWARD) G SET SW	Connector No. 8556 Connector Name LIFTMG MOTOR (REAR) (DRVER SIDE) Connector Type 60399-3768	盘 H.S.	18	Connector Name Connector Type	SEAT MEMORY SWITCH A08FW	
Connector No. B554 Connector Name RECLINING MOTOR (DRIVER SIDE)	HS.		34 38 12 43	H.S.	K	
Connector Type 1438992-1	41 43 12 42	Terminal Color Of No. Wire 12 L/R	Signal Name [Specification] -		3151 161/12114	
H.S. 3512434 139	Terminal Color Of Signal Name (Specification) No. Wree 20 L/R		1 1 1 1	Terminal Color Of No. Wire 1 V 3 W	Signal Name [Specification]	
f Signal Name	41 V - 42 P/B - 42 - 43 LG - 44 LG - 4		D3 DOOR MIRROR (PASSENGER SIDE)	4 B 5 SB 6 LG 7 0	1 1 1 1	
	Dormetor No. 18559 Corrrector Name POWER SEAT SMTCH (DRIVER SIDE) Connector Type INSTOPHICS	Connector Type TH24MW-NH M H.S.	W-WH 11Л 716151 1	Connector No. Connector Name	D14 DOOR MIRPOR REMOTE CONTROL SWITCH	
Connector No. B555 Connector Name Lirrinko MOTOR (FRONT) (ORIVER SIDE)	E ST	242		Connector Lype	I K10FBK	
	25 11 24 8 27 9	Terminal Color Of No. Wire 1 L 5 W	Signal Name [Specification] -	H.S.	8 9 101111213 15	
	Terminal Color Of Signal Name [Specification] No. Wire s Signal Name [Specification]	6 R 7 LG 88		Terminal Color Of No. Wire	Signal Name [Specification]	
	9 L			4 LG 7 B		
	\mathbb{H}	13 G 17 SHIELD		8 BR		
	 Y/B	+		┝	1	

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1 1	1 1		1 1	,		1		-				(PDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE BROW)				K		42 41 40 39		40 40 44 44 45]	 	Signal Name [Specification]				-	1	1	-	1												
$\left \right $		13 B 17 SHIELD		t	H	22 R	_	24 L	-		Connector No. E11	Connector Name PDM E/R (INTELLIGENT		Connector Type TH08FW-NH	Æ	産す	T H.S.		<u>. </u>	<u> </u>	1	Calar Of	Wire	39 P	40 L	41 B	42 SB	43 LG	44 W	- ⁴	46 0							1				- T	-
1.1	T T		1 1	1	Т				1		1	Dense	 [Without automatic drive positioner] 	 [With automatic drive positioner] 	- [Without automatic drive positioner]	- [with automatic drive positioner]						,			-			D43	DOOR MIRROR (DRIVER SIDE)	TT I 10 44 64 1	1H24MW-NH				12 11 10 7 6 5 1	24 23 22 21 20 19 18 17 13			Sirmal Name [Specification]		-	T	I
28 G 29 V	+	32 LG 33 V		╀	\square	+	+	40 BR	+	42	4	+	+	+	46 5	╋	╋	+	t	t	+	52 10	⊢	t	55 R			Connector No.	Connector Name		actor lype	E	e	1.5. 1			_		Terminal Color Of	No. Wire		2 2	-
50 BR -	53 SHIELD	54 G 55 R -		Connector No. D41	e e		Connector Type TH40FW=CS15			15 14 13 12 11 10 9 8 7 6 5 4 3 2 1		5654 55 521 51 51 74 41 41 52 524 52 521 51 51 52 55 52 51 51 52 55 52 51 52 55 55			0-0	No Wire Signal Name [Specification]	_						- GR	- 8	9 BR - [With front power window anti-pinch system]		1	-			114 M M 114	·			⊢	20 GR -	-	BR -	R -	8 -	- M	26 SHIELD -	
	13 K			Connector Name WIRE TO WIRE	Connector Type TH40FW-CS15	Ð		H.S.		(1) 10 10 10 10 10 10 10 10 10 10 10 10 10				Terminal Color Of Signal Name [Specification]	wire	 Method accessor conversion and include accessor 	Т	6 PD = [With front power window anti-pinch system]	-		0			┢	. a.		ж	w	21 R	n 3	23 W =	5	26 L -	rg LG	×	_	0	в	w	_	¢.	45 G -	-

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AUTOMATIC DRIVE POSITIONER SYSTEM

AUTOMATIC DRIVE POSITIONER	Connector No.		E105	63	W/L		26	۲0 ۲	SENSOR POWER
		L	40-10				5		
ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)	Connect.	Connector Name	WIRE TO WIRE	40 99	L/M		²	2	
AE722FB-A.174-I H	Connector Type	or Type	TH70MW-CS10-M3	29	-	1	23	9/B	
				8	SB		8	G/R	
	ß		0	70	P	1	31	٩	CAN-L
				1/	œ	1	32	٦	CAN-H
25 23 22 21 20 19 16	2		14 14 e	72	-	-	33	ГG	PRIMARY SPEED SENSOR
F				73	GR	-	34	LG/R	
13 12111101918171615141312 1 5				74	~	-	37	V/R	LOCK-UP SELECT SOLENOID VALVE
				75	SB	-	38	Γ/W	-
			I	76	>		39	W/B	SEC
Signal Name [Specification]	Termina	0	Signal Name [Specification]	11	G		40	R	LINE PRESSURE SOLENOID VALVE
	ő N	Wire		78	0		42		GROUND
	-	SHIELD	-	8	œ	-	46	>	IGNITION POWER SUPPLY
	2	w	-	8	٦	-	47	L/R	BATTERY POWER SUPPLY (MEMORY BUCK-UP
RR LH WHEEL SENSOR POWER SUPPLY	3	В	1	82	ΓC	-	48	٢	IGNITION POWER SUPPLY
G SENSOR POWER SUPPLY	4	æ	1	83	æ				
FR RH WHEEL SENSOR POWER SUPPLY	9	ΓC	1						
FR RH WHEEL SENSOR SIGNAL	7	ч	1				Connector No.	ar No.	M1
BRAKE FLUID LEVEL SWITCH SIGNAL	∞	GR	1	Connec	Connector No.	F23		- Manual	ELISE BLOCK (1/B)
FR LH WHEEL SENSOE SIGNAL	6	SB	1		Connector Nome	TON (TO MISSING NOTION POOL INC.)			FOOL BLOOK (3/ B)
FR LH WHEEL SENSOR POWER SUPPLY	10	BR	1				Connector Type		NS06FW-M2
G SENSOR GND	=	Y	-	Connec	Connector Type	RH40FB-RZ8-L-RH	ģ		
	12	0	-	4		[B		
RR RH WHEEL SENSOE SIGNAL	13	W	-	ß					
GROUND	14	-	1		7	31 32 33 34 37 38 39 40 47 48		_	
MOTOR BATTERY	15	٩	-		9	25 28 27 28 29 30 46			0 A 7 A 6 A 5 A 4 A
STOP LAMP SWITCH SIGNAL	31	GR	-			11 13 14 15 19 20			10 10 11 HO
G SENSOR SIGNAL (+)	32	я	-			1 2 3 4 5 7 8 9 10 42]
IGN	33	w	-						
CAN-L	37	BR	-				Terminal	Color Of	f Simol Name [Saccification]
VDC OFF SWITCH SIGNAL	38	9	1	Terminal	<u> </u>	Signal Name [Snecification]	Ň	Wire	Figure 100
CAN-H	39	>	-	° Ž	Wire		ΙA	>	
G SENSOR SIGNAL (-)	40	٩	-	-	P/B	TRANSMISSION RANGE SWITCH 2	2A	σ	-
GROUND	41	L	-	2	P/L	TRANSMISSION RANGE SWITCH 3	3A	L	-
	42	LG	1	3	G/0	TRANSMISSION RANGE SWITCH 4	4A	GR	1
	43	0	-	4	GR	TRANSMISSION RANGE SWITCH 3 (MONITOR)	5A	>	-
	45	GR	ı	ۍ	æ	GROUND	6A	æ	1
	46	SB	,	~	>	SENSOR GROUND	7A	ЧG	1
	47	>			Ø∕W	ROM ASSY (SEL 2)	88	-	,
	49	-	1	σ.	8/1	ROM ASSY (SEI 1)			
	5	BR	1	<u>-</u>	BR/R	ROM ASSY (SEI 3)			
	63	c	1		BR/W	TRANSMISSION RANGE SWITCH 1			
	202	ο a		= =	>	CVT FLIID TEMPERATIRE SENSOR			
	2		1	: = 	M/d				
	55	>-	1	12	W/V	SECONDARY PRESSURE SENSOR			
	295	SHIFLD	1	: <u>≏</u>	8/8	BACK-IP I AMP RELAY			
	;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	5		ין ד	30	OTTOT OF FORT AL			

R/B W/R



	r.c	+	39 V -	+	- >			45 W/L - [With automatic drive positioner]	Y NO	A 200		4) V 10	40 0 - [Mith automatic deiro societizad	- M/d	- >			53 SHIELD -	54 L/R –			Commentant No.		Connector Name WIRE TO WIRE	Connector Type TH40MW-CS15		B							No Wire Signal Name [Specification]		 D/W D/W D/W D/W 		1	BR	GR - [With front power w	2	11 SB	· œ		16 BR -	
	M18	WIRE TO WIRE	TH40MW-CS15		1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		10 11 10 13 45 45 45 45 45 45 45 45 45 45 45 45 45				Signal Name [Specification]							1	T	I			1	- [With BOSE system]	- [Without BOSE system]				г	-									1				,	, ,		
	Т	Connector Name	Connector Type	Ð		<u>6</u> .		_		TOf	No Wire	1 D./W			• >	R. S.	6 BR	7 LG	┥	+	а ;			$\left \right $	┢		16 Y		18 P	+	+	+	22 23 8		-	0	t	7/ GH	+	+	+	33 33	33 ×	┢	35 GR	
	> .	14 L		> >	37 BR -	BR	~	₫.	- 0	5 3	* 0	43 EG -] (8		Я	L		BR	LG MAD	64 W/R -	0	SB	Y	0 R -	_	-	œ :	4	د ت	77 P	. 3	* >	- *	£	82 L =	-							
ATIC DRIVE POSITIONER	M4	Connector Name DATA LINK CONNECTOR	Connector Type BD16FW 3								No Wire Signal Name [Specification]							SB -	1	- 0				Connector Name WIRE TO WIRE	Connector Type TH70FW-CS10-M3 6					210 M 101 M			Color Of	No Wire Signal Name [Specification]	CHIEID -					0 (+		+-	+	+	4

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20 P SENS GND	<i>•</i>	V MIR MI	23 G MIR MTR UP (LH)	24 W MIR MTR LEFT (LH)			Connector No. M77	Connection Name		Connector Type TH80FW-CS19							Ę		Terminal Color Of Simul Name [Sancification]	Wire	-	> :	× :		- 0	30 P	0		38 W	39 B	39	╉		• •				╀	5	+	61 LG –	62 V –	63 SB -	64 R -	65 G	e6 SHIELD -	F	1
Connector No. M57	Г	Connector Name CVT SHIFT SELECTOR	Connector Type TH12FW-NH	4	I			6 4 1		-11	- P		No. Wire District Representation	1 P -	4 B/R -	6 0 -	7 B -	8 L –	9 6 -		ſ	Connector No. M75	Connector Name AUTOMATIC DRIVE POSITIONER CONTROL UNIT		Connector Lype I H24FW-NH				2 3 4 5 6 8 10 11 12	14 15 16 17 18 20 21 22 23 24			I erminal Golor UF Signal Name [Specification]	╉		+		> {	H	BR	11 W MIR MTR LEFT (RH)	12 Y MIR MTR DOWN RIGHT (LH)	14 GR SELECT LH	15 0 DOWNWARD	16 W RIGHTWARD	BR MIR SEN	ß	
12 BR SELECT SWITCH SIGNAL		>	15 BR AIR BAG SIGNAL	16 L ENGINE COOLANT TEMPERATURE SIGNAL	18 LG AMBIENT SENSOR SIGNAL	19 R A/C AUTO AMP. CONNECTION RECOGNITION SIGNAL	20 Y AMBIENT SENSOR GROUND	21 L CAN-H	22 P CAN-L	23 B GROUND	B FUE		BR	27 Y BRAKE FLUID LEVEL SWITCH SIGNAL	28 V SECURITY SIGNAL	29 G WASHER LEVEL SWITCH SIGNAL	31 SB VEHICLE SPEED SIGNAL (8-PULSE)	32 P OVERDRIVE CONTROL SWITCH SIGNAL	34 0 FUEL LEVEL SENSOR SIGNAL	٩	36 BR PASSENGER SEAT BELT WARNING SIGNAL		ſ	Connector No. M48	Connector Name CIRCUIT BREAKER	Connection Tune M00504-D-1 C	1	[Jef	Ţ		Terminal Calar Of														
AUTOMATIC DRIVE POSITIONER	- H	╞	21 R -		23 W -	24 SHIELD -	25 W/L –	26 W/R –	Н	37 W -		_	40 B -	41 R -	_	43 GR -		46 GR –	50 V -	BR	┥		53 SHELD -	54 B/Y =			Connector No M34		Connector Name CUMBINATION METER	Connector Type TH40FW-NH	1		HS	1 2 3 4 5 1 8 10 11 12 13 14 15 1 8	18		Farminal Polor Of	erimital Color Of Signal Name [Specification]	wire	0 BATTERY POWER SUPPLY	Y IGNITION SIGNAL			5 B/P ILLUMINATION CONTROL SIGNAL	BS	٩	┞	-

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64 LG CRAMK RED 65 V ALDOOR LOCK OUTPUT 66 0 DR DOOR JMK. OUTPUT 67 B GROUND 69 L PW PMR SELY (16AT) 70 L PW PMR SELY (16AT) 70 L BAT Connector Nu. BAT Domestor Nu. BAT	Connector Type THACRPA-NH Image: Second Secon	
Ownerster No. M122 Gennester Name BCM (BODY CONTROL MODULE) Gennester Type FEA00FB-FHAR-SA FEA0FB-FHAR-SA FEA0FB-FHAR-SA FEA0FB-FHAR-SA FEA0FB-FHAR-SA	Terminal Cale of No. Signal Name [Spear/firation] No. P P EK DOOR SW 44 P F An WERE NOT POSITION 46 Signal Name [Spear/firation] Diff Door SW 47 C Support POSITION 48 C Support POSITION 49 E Support POSITION 50 V Support POSITION 51 E BARONCORE SW 54 E REAR WREE OUTPUT 50 Support LINK CONT Support LINK CONT 50 Connector Name Support HUNK CONT 50 Support HUNK CONT Support HUNK CONT	Terminal Calor Of Wise Signal Mune [Spacification] 96 P INT ROOM LAMP PWR SPLY 97 GR INT ROOM LAMP PWR SPLY 98 O INT ROOM LAWP WR SPLY 98 P PNSSOOR UNKLOUTUT 60 Y TURN SQI EN UNFUT 61 V TURN SQI EN UNFUT 62 M TURN SQI EN UNFUT 63 P STEP LAMP CONT 63 R MT ROOM LAMP CONT
Connector No. MT21 Connector Name BCM (BODY CONTROL MODULE) Connector Type TH40FB-MM Connector Type TH40FB-MM Connector Type TH40FB-MM Connector Type TH40FB-MM	Terminal No. Signal Name (Specification) No. 1 W REAR MNDOW DEF RELAY CONT 2 LG CORIEI SW INPUT 5 3 Y CORIEI SW INPUT 5 4 O CORIEI SW INPUT 5 5 G CORIEI SW INPUT 3 6 L CORIEI SW INPUT 3 7 W CORIEI SW INPUT 3 8 Y KEY CUL UNLOKE 64 9 V REY CUL UNLOKE 64 12 GR PODEIL 84 WINDUT 3 13 FR PV LOCKS 81 WINDUT 14 14 L CORIEI SW INDUT 1 15 FR PM CORIEI 84 WINDUT 1 16 PK POT LOCK 81 WINDUT 1 CORIEI 84 WINDUT 1 12 GR PODOR LK 5 WINL 54 WINDUT 1 13 FR PODOR LK 5 WINL 54 WINDUT 1 14 L CORIEI 84 WINL 54 WINL 55 WINL 54 WINL 55 WINL 54 WINL 55 WINL 55 WINL 54 WINL 55 WIN	30 L DR DOM MAK SPRS 32 Y ORM ISMO UNPUT 5 33 W COMBI SW OUTPUT 5 34 GR COMBI SW OUTPUT 1 35 SB COMBI SW OUTPUT 1 36 R COMBI SW OUTPUT 1 37 G COMBI SW OUTPUT 1 38 SB COMBI SW OUTPUT 1 39 L DEFEV SW 39 L DEFEV SW 40 P CAN-H 40 P CAN-H
AUTOMATIC DRIVE POSITIONER Bit OR/V - 00 06/V 00 8/HEL 00 8/HEL 00 8/HEL 10 8/HE 11 8/HE 12 1/1 13 1/1 14 0/H 17 0/H 18 1/1 19 1/1 17 0/H 18 1/1 19 1/1	R2 W - - 83 Y V - - 89 P - - - - 90 P - - - - - 90 P - <td></td>	

AUTOMATIC DRIVE POSITIONER SYSTEM

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< WIRING DIAGRAM >



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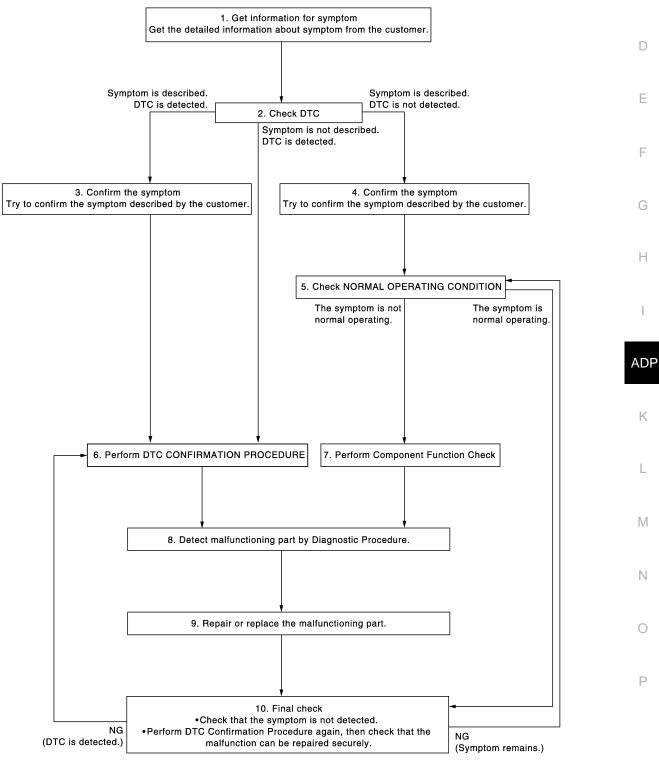
BASIC INSPECTION DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

INFOID:000000009649614 B

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OVERALL SEQUENCE



DETAILED FLOW

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Revision: 2014 May

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

1.GET INFORMATION FOR SYMPTOM

Get the detailed information from the customer about the symptom (the condition and the environment when the incident/malfunction occurred).

>> GO TO 2.

2. CHECK DTC WITH AUTOMATIC DRIVE POSITIONER SYSTEM

Check "Self Diagnostic Result" with CONSULT. Refer to ADP-30, "DTC Index"

Is any symptom described and any DTC is displayed?

Symptom is described, DTC is displayed.>>GO TO 3. Symptom is not described, DTC is displayed.>>GO TO 6. Symptom is described, DTC is not displayed.>>GO TO 4.

3.CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer.

>> GO TO 6.

4.CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer.

>> GO TO 5.

5. CHECK NORMAL OPERATING CONDITION

Check normal operating condition. Refer to <u>ADP-110, "Description"</u>.

Is the incident normal operation?

YES >> INSPECTION END

NO >> GO TO 7.

6.PERFORM DTC CONFIRMATION PROCEDURE

Perform the confirmation procedure for the detected DTC.

Is the DTC displayed?

YES >> GO TO 8.

NO >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u>.

7.PERFORM COMPONENT FUNCTION CHECK

Perform the component function check for the isolated malfunctioning point.

>> GO TO 8.

8. DETECT MALFUNCTIONING PART BY DIAGNOSTIC PROCEDURE

Isolate the malfunctioning point by performing the diagnosis procedure relevant to the symptom during the component diagnosis.

>> GO TO 9.

9.Repare or replace the malfunctioning parts

Repair or replace the malfunctioning part.

>> GO TO 10.

10.FINAL CHECK

Perform the DTC confirmation procedure (if DTC is detected) or component function check (if no DTC is detected) again, and then check that the malfunction can be repaired securely. Are all malfunctions corrected?

Revision: 2014 May

ADP-44

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

YES >> INSPECTION END Symptom is detected.>> GO TO 5. DTC is detected.>> GO TO 6.

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ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL < BASIC INSPECTION >

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMI-NAL

Description

INFOID:000000009649615

Each function is reset to the following condition when the battery terminal is disconnected.

Function	Condition	Procedure
Memory (Seat, mirror)	Erased	Perform storing
		Perform initialization
Entry/exit assist	ON	Set slide amount [*]
Intelligent Key interlock	Erased	Perform initialization
	LIASEU	Perform storing

*: Default value is 40 mm.

NOTE:

Notice that disconnecting the battery when detected DTC are present will erase the DTC memory.

Work Procedure

INFOID:000000009649616

1.SYSTEM INITIALIZATION

Perform system initialization. Refer to <u>ADP-48, "Work Procedure"</u>.

>> GO TO 2.

2.MEMORY STORAGE

Perform memory storage. Refer to ADP-49, "Work Procedure".

>> GO TO 3.

3.INTELLIGENT KEY INTERLOCK STORAGE

Perform Intelligent Key interlock storage. Refer to ADP-50, "Work Procedure".

>> GO TO 4. **4.**SYSTEM SETTING

Perform system setting. Refer to <u>ADP-51, "Work Procedure"</u>.

>> END

ADDITIONAL SERVICE WHEN REMOVING DRIVER SEAT CONTROL UNIT < BASIC INSPECTION >

ADDITIONAL SERVICE WHEN REMOVING DRIVER SEAT CONTROL UNIT

Description

INFOID:000000009649617

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Each function is reset to the following condition when the driver seat control unit is replaced.

Function	Condition	Procedure	_
Memory (Seat, mirror)	Erased	Perform storing	_
Entry/exit assist	ON	Perform initialization	_
Entry/exit assist	ON	Set slide amount [*]	
Intelligent Kov interlook	Erased	Perform initialization	
Intelligent Key interlock	Elaseu	Perform storing	_
Default value is 40 mm.			-
IOTE: Iotice that disconnecting the battery when dete	octed DTC are pres	ant will arose the DTC moment	
	cled DTC ale ples	ent will erase the DTC memory.	
Vork Procedure		INFOID:00000000964	49618
.SYSTEM INITIALIZATION			
Perform system initialization. Refer to ADP-48,	"Work Procedure".		
>> GO TO 2.			
2.MEMORY STORAGE			
Perform memory storage. Refer to ADP-49. "We	ork Procedure".		
>> GO TO 3.	_		
$B.$INTELLIGENT KEY INTERLOCK STORAGE			
Perform Intelligent Key interlock storage. Refer	to ADP-50, "Work I	Procedure".	
>> GO TO 4.			
SYSTEM SETTING			
Parform system satting Pafor to ADP 51 "War	k Procoduro"		
Perform system setting. Refer to <u>ADP-51, "World</u>	<u>k Procedure"</u> .		
Perform system setting. Refer to <u>ADP-51, "Worl</u>	k Procedure".		
	<u>k Procedure"</u> .		
	<u>k Procedure"</u> .		

SYSTEM INITIALIZATION

< BASIC INSPECTION >

SYSTEM INITIALIZATION

Description

INFOID:000000009649619

Always perform the initialization when the battery terminal is disconnected or the driver seat control unit is replaced.

The entry/exit assist function will not operate normally if no initialization is performed.

Work Procedure

INFOID:000000009649620

1.STEP 1

There are two initialization methods. Which method do you use?

With door switch>>GO TO 2. With vehicle speed>>GO TO 3.

2. STEP 2-A (WITH DOOR SWITCH)

1. Turn ignition switch from ACC to OFF position.

2. Front door switch (driver side) is ON (open) \rightarrow OFF (close) \rightarrow ON (open).

>> END

3. STEP 2-B (WITH VEHICLE SPEED)

Drive the vehicle at more than 25 km/h (16 MPH).

>> END

MEMORY STORING

< BASIC INSPECTION >

MEMORY STORING

Description

Always perform the memory storage when the battery terminal is disconnected or the driver seat control unit is replaced. The memory function will not operate normally if no memory storage is performed.

Work Procedure

Two positions for the driver seat and outside mirror can be stored for memory operation by following procedure.

NOTE:

If memory is stored in the same memory switch, the previous memory will be deleted.

1.STEP 1

Check the following conditions.

Ignition switch: ON

CVT shift selector: P position

>> GO TO 2.

2.STEP 2

- 1. Adjust driver seat and outside mirror position manually.
- 2. Push set switch.
 - NOTE:
 - Memory indicator for which driver seat position is already retained in memory is illuminated for 5 seconds.
 - Memory indicator for which driver seat position is not retained in memory is illuminated for 0.5 second.
- 3. Push the memory switch (1 or 2) for at least 1 second within 5 seconds after pushing the set switch. **NOTE:**
 - To enter driver seat positions into blank memory, memory indicator will be turned on for 5 seconds.
 - To modify driver seat positions, memory indicator will be turned OFF for 0.5 second, then turned ON for 5 seconds.
- 4. Confirm the operation of each part with memory operation.

>> END

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INFOID:00000000964962

INFOID:000000009649622

INTELLIGENT KEY INTERLOCK STORING

< BASIC INSPECTION >

INTELLIGENT KEY INTERLOCK STORING

Description

INFOID:000000009649623

Always perform the Intelligent Key interlock function storage when the battery terminal is disconnected or the driver seat control unit is replaced. The Intelligent Key interlock function will not operate normally if no memory storage is performed.

Work Procedure

INFOID:000000009649624

Performing the following operation associates the registered driving position with Intelligent Key. When driver door unlock operation is performed by Intelligent Key or driver door request switch, display of the registered driving position and turnout operation can be performed.

1.STEP 1

Check the following conditions.

- Ignition switch: OFF
- Initialization: done
- Driving position: registered

>> GO TO 2.

2.STEP 2

 Push set switch. NOTE:

Memory indicator for which driver seat position is already retained in memory is illuminated for 5 seconds. Push the Intelligent Key unlock button within 5 seconds after pushing memory switch (while the memory

2. Push the Intelligent Key unlock button within 5 seconds after pushing memory switch (while the memory indicator is turned ON).

NOTE:

From the time registration is performed, the applicable memory indicator blinks for 5 seconds.

3. Confirm the operation of each part with memory operation and Intelligent Key interlock operation.

>> END

SYSTEM SETTING

< BASIC INSPECTION >

SYSTEM SETTING

Description

The settings of the automatic driving positioner system can be changed, using CONSULT and the set switch. Always check the settings before and after disconnecting the battery terminal or replacing driver seat control unit.

SETTING CHANGE

				×: Applicable
Item	Content	CONSULT	Set switch	Factory setting
Amount of seat sliding for entry/exit assist	The amount of seat sliding for entry/exit assist can be selected from 3 items. [40 mm/80 mm/150 mm]	x	_	40 mm
Entry/exit assist (seat)	Entry/exit assist (seat) can be selected: ON (operated) – OFF (not operated)	x	x	ON
Work Procedure			I	NFOID:000000009649620
1. STEP 1				
There are three way of settir	-			
Which method do you choos				
With CONSULT>>GO TO 2 With set switch>>GO TO 3				
2. STEP 2-A (WITH CONSU				
 EXIT SEAT SLIDE SET 	DE SETTING" then touch display to change bet TING: Entry/exit assist (seat) DLUME SET" and touch either of "40 mm", "80 r			
>> END				
3.STEP 2-B (WITH SET SV	VITCH)			
 Turn ignition switch OFF Push set switch and hole 		ing of the me	emory swi	tch indicator
	F: Memory switch indicator blink two times.			
>> END				

Revision: 2014 May

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INFOID:000000009649625

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DTC/CIRCUIT DIAGNOSIS U1000 CAN COMM CIRCUIT

Description

INFOID:000000009649627

INEOID-000000009649628

CAN (Controller Area Network) is a serial communication line for real time applications. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Modern vehicle is equipped with many electronic control unit, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN H-line, CAN L-line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only.

DTC Logic

DTC DETECTION LOGIC

DTC No.	CONSULT display description	DTC detecting condition	Possible cause
U1000	CAN COMM CIR- CUIT	 Driver seat control unit cannot communicate to other control units. When driver seat control unit cannot communicate CAN communication signal continuously for 2 seconds or more. 	CAN communication system

DTC CONFIRMATION PROCEDURE

1.STEP 1

Turn ignition switch ON and wait at least 3 seconds.

>> GO TO 2.

2.STEP 2

Check "Self diagnostic result" with CONSULT.

Is the DTC detected?

YES >> Refer to <u>ADP-52</u>, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

Refer to LAN-17, "Trouble Diagnosis Flow Chart".

Special Repair Requirement

Refer to <u>ADP-48, "Description"</u>.

INFOID:000000009649629

INFOID:000000009649630

U1010 CONTROL UNIT (CAN)

< DTC/CIRCUIT DIAGNOSIS >

U1010 CONTROL UNIT (CAN)

DTC Logic

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause	С
U1010	CONTROL UNIT (CAN)	When detecting error during the initial diagnosis of CAN con- troller of driver seat control unit.	Driver seat control unit	-

Diagnosis Procedure

1.REPLACE DRIVER SEAT CONTROL UNIT

When DTC [U1010] is detected, replace driver seat control unit.

>> Replace driver seat control unit. Refer to <u>ADP-111, "Removal and Installation"</u>.

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< DTC/CIRCUIT DIAGNOSIS >

B2112 SLIDING MOTOR

DTC Logic

INFOID:000000009649633

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2112	SEAT SLIDE	The driver seat control unit detects the output of slid- ing motor output terminal for 0.1 second or more even if the sliding switch is not input.	Driver seat control unitSlide motor harness is shorted

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

- 1. Turn ignition switch ON.
- 2. Check "Self diagnostic result" with CONSULT.

Is the DTC detected?

- YES >> Refer to ADP-54, "Diagnosis Procedure".
- NO >> INSPECTION END

Diagnosis Procedure

1. CHECK SLIDING MOTOR CIRCUIT (POWER SHORT)

- 1. Turn ignition switch OFF.
- 2. Disconnect sliding motor connector and driver seat control unit connector.
- 3. Check voltage between sliding motor harness connector and ground.

	+) g motor	(-)	Voltage (V) (Approx.)
Connector	Terminals		(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
B561	34	Ground	0
0001	38	Giouna	0

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness or connector.

2.check driver seat control unit output signal

1. Connect driver seat control unit connector.

2. Check voltage between driver seat control unit harness connector and ground.

(•	(+)			
Driver seat	Driver seat control unit		Voltage (V)	
Connector	Terminals			
B551	34	Ground	0 – 1	
6001	38	Ground	0-1	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace driver seat control unit. Refer to <u>ADP-111, "Removal and Installation"</u>.

3.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

INFOID:000000009649634

B2113 RECLINING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

B2113 RECLINING MOTOR

DTC Logic

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INFOID:000000009649635

DTC No.	Trouble diagnosis name	DTC detecti	ing condition	Possible cause
B2113	SEAT RECLINING	The driver seat control un clining motor output termin even if the reclining switch		 Driver seat control unit Reclining motor harness is shorted
FC CONF	IRMATION PROCI	EDURE		
PERFOR	M DTC CONFIRMAT	TION PROCEDURE		
:" Check <u>the DTC d</u> ES >>		" with CONSULT. agnosis Procedure".		
iagnosis	Procedure			INFOID:0000000096
		CIRCUIT (POWER SH		
		onnector and driver sea ning motor harness cor		
	Reclining mo	tor	(-)	Voltage (V) (Approx.)
C	Connector	Terminals		(Approx.)
	B554	35	Ground	0
B554		39		
the inspec	tion result normal?			
CHECK E	GO TO 2. Repair or replace ha DRIVER SEAT CONT driver seat control u	ROL UNIT OUTPUT S		ound.
CHECK E	GO TO 2. Repair or replace ha DRIVER SEAT CONT driver seat control u oltage between drive	ROL UNIT OUTPUT S		ound.
CHECK E	GO TO 2. Repair or replace ha DRIVER SEAT CONT driver seat control u	ROL UNIT OUTPUT S init connector. er seat control unit harn		ound. Voltage (V)
YES >> 0 NO >> 1 CHECK E Connect Check v	GO TO 2. Repair or replace ha DRIVER SEAT CONT driver seat control u oltage between drive	ROL UNIT OUTPUT S init connector. er seat control unit harn	ness connector and gr	
YES >> 0 NO >> 1 CHECK E Connect Check v	GO TO 2. Repair or replace ha DRIVER SEAT CONT driver seat control u oltage between drive (+) Driver seat control Connector	ROL UNIT OUTPUT S init connector. or seat control unit harn	ness connector and gr	Voltage (V)
YES >> 0 NO >> 1 CHECK I Connect Check v	GO TO 2. Repair or replace ha DRIVER SEAT CONT driver seat control u oltage between drive (+) Driver seat control	ROL UNIT OUTPUT S init connector. er seat control unit harn ol unit Terminals	ness connector and gr (-)	

< DTC/CIRCUIT DIAGNOSIS >

B2128 UART COMMUNICATION LINE

Description

Driver seat control unit performs UART communication with the automatic drive positioner control unit using 1 communication lines. Driver seat control unit receives the operation signals of door mirror remote control switch and the position signals of door mirror sensor from the automatic drive positioner control unit and transmits the operation request signal.

DTC Logic

INFOID:000000009649638

INFOID:000000009649637

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2128	UART COMM	The communication between driver seat control unit and auto drive positioner control unit is interrupted for a period of time.	 UART communication line (UART communication line is open or shorted) Driver seat control unit Automatic drive positioner control unit

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

- 1. Turn ignition switch ON.
- 2. Check "Self diagnostic result" with CONSULT.

Is the DTC detected?

YES >> Refer to <u>ADP-56, "Diagnosis Procedure"</u>.

NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000009649639

1.CHECK UART COMMUNICATION LINE CONTINUITY

- 1. Turn ignition switch OFF.
- 2. Disconnect driver seat control unit connector and automatic drive positioner control unit connector.

 Check continuity between driver seat control unit harness connector and automatic drive positioner control unit harness connector.

Driver seat	Driver seat control unit Automatic drive		sitioner control unit	Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
B552	2	M75	8	Existed	

4. Check continuity between driver seat control unit harness connector and ground.

Driver seat	Driver seat control unit		Continuity	
Connector	Connector Terminal		Continuity	
B552	2		Not existed	

Is the inspection result normal?

YES >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u>.

NO >> Repair or replace harness or connector.

B2130 EEPROM

< DTC/CIRCUIT DIAGNOSIS >

B2130 EEPROM

DTC Logic

1.

2.

INFOID:000000009649640 DTC DETECTION LOGIC В Trouble diagnosis DTC No. DTC detecting condition Possible cause name С B2130 EEPROM Driver seat control unit detected CPU malfunction. Driver seat control unit DTC CONFIRMATION PROCEDURE D 1.PERFORM DTC CONFIRMATION PROCEDURE Turn ignition switch ON. Е Check "Self diagnostic result" with CONSULT. Is the DTC detected? >> Refer to ADP-57, "Diagnosis Procedure". YES F NO >> INSPECTION END **Diagnosis** Procedure INFOID:000000009649641 **1.**REPLACE DRIVER SEAT CONTROL UNIT Replace driver seat control unit. Refer to ADP-111, "Removal and Installation".

>> INSPECTION END

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POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

POWER SUPPLY AND GROUND CIRCUIT DRIVER SEAT CONTROL UNIT

DRIVER SEAT CONTROL UNIT : Diagnosis Procedure

INFOID:000000009649642

NOTE:

Do not disconnect the battery negative terminal and the driver seat control unit connector until DTC is confirmed with CONSULT.

1.CHECK FUSIBLE LINK

Check that the following fusible link is not fusing.

Signal name	Fusible link No.	
Battery power supply	L (40 A)	

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace the blown fuse after repairing affected circuit.

2.CHECK DRIVER SEAT CONTROL UNIT POWER SUPPLY

1. Turn ignition switch OFF.

- 2. Disconnect driver seat control unit connector.
- 3. Check voltage between driver seat control unit harness connector and ground.

(+)		(-)	Voltage (V)
Driver seat control unit			
Connector	Terminals		
B551	33	Ground	9 – 16

Is the inspection result normal?

YES >> GO TO 3.

NO-1 >> Repair or replace harness between driver seat control unit and fusible link L (40 A).

NO-2 >> Check circuit breaker and replace it if necessary.

3.CHECK DRIVER SEAT CONTROL UNIT GROUND CIRCUIT

Check continuity between the driver seat control unit harness connector and ground.

Driver seat control unit			Continuity	
 Connector Terminal		Ground	Continuity	
 B551	43		Existed	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace harness.

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

AUTOMATIC DRIVE POSITIONER CONTROL UNIT : Diagnosis Procedure

INFOID:000000009649643

NOTE:

Do not disconnect the battery negative terminal and the driver seat control unit connector until DTC is confirmed with CONSULT.

1.CHECK FUSIBLE LINK

Check that the following fusible link is not fusing.

Signal name	Fusible link No.	
Battery power supply	L (40 A)	

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

DIC/CIRCUIT DIAGNOSIS	>		
s the inspection result normal?			
YES >> GO TO 2. NO >> Replace the blown f	was often repairing the	offected singuit	
			V
CHECK AUTOMATIC DRIVE	POSITIONER CONTR	OL UNIT POWER SUPPL	_Y
Turn ignition switch OFF. Disconnect automatic drive	positionar control unit a	annactor	
Check voltage between auto			ector and ground.
			5
(+)			
Automatic drive positio		(-)	Voltage (V)
Connector	Terminals		
M104	25	Ground	9 – 16
the inspection result normal?			
ES >> GO TO 3.		a at a antical subit and finally.	
IO-1 >> Repair or replace ha		seat control unit and fusible	e link L (40 A).
CHECK AUTOMATIC DRIVE	•	•	нит
eck continuity between the au	atomatic drive positione	er control unit narness con	nector and ground.
Automatic drive positio	ner control unit		
Connector	Terminal	Ground	Continuity
M104	30		Existed
the inspection result normal?			
ES >> INSPECTION END			
O >> Repair or replace has a second secon	arness.		

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< DTC/CIRCUIT DIAGNOSIS >

SLIDING SWITCH

Component Function Check

INFOID:000000009649644

INFOID:000000009649645

1. CHECK FUNCTION

1. Select "SLIDE SW-FR", "SLIDE SW-RR" in "Data monitor" mode with CONSULT.

2. Check sliding switch signal under the following conditions.

Monitor item	Condition		Status
SLIDE SW-FR	Sliding switch (forward)	Operate	ON
		Release	OFF
SLIDE SW-RR	Sliding switch (backward)	Operate	ON
		Release	OFF

Is the indication normal?

YES >> INSPECTION END NO >> Refer to <u>ADP-60, "Diagnosis Procedure"</u>.

Diagnosis Procedure

1.CHECK SLIDING SWITCH INPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect power seat switch connector.
- 3. Turn ignition switch ON.
- 4. Check voltage between power seat switch harness connector and ground.

(+)		(-)	Voltage (V)
Power seat switch			
Connector	Terminals		
B559	8	- Ground	9 – 16
B009	24		

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK SLIDING SWITCH CIRCUIT

1. Turn ignition switch OFF.

2. Disconnect driver seat control unit connector.

 Check continuity between driver seat control unit harness connector and power seat switch harness connector.

Driver sea	t control unit	Power seat switch		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B552	8	B559	8	Existed
6002	24	6339	24	

4. Check continuity between driver seat control unit harness connector and ground.

Driver seat control unit			Continuity
 Connector	Terminal	Ground	Continuity
 B552	8	- Ground	Not existed
 DJJZ	24		INDI EXISIEU

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>ADP-111, "Removal and Installation"</u>.

SLIDING SWITCH

< DTC/CIRCUIT DIAGNOSIS >			
NO >> Repair or replace harness or co	nnector.		
3. CHECK SLIDING SWITCH			
Refer to ADP-61, "Component Inspection".			
Is the inspection result normal?			
YES >> Check intermittent incident. Ref NO >> Replace power seat switch. Ref			5
Component Inspection			INFOID:00000009649646
1.CHECK SLIDING SWITCH			
1. Turn ignition switch OFF.			
2. Disconnect power seat switch (sliding s			
3. Check continuity between power seat s	witch (sliding switch) tern	ninals under the f	ollowing conditions.
Power seat switch (Sliding switch)	Oand	:+:	Oractionsity
Terminal	Cond	luon	Continuity
	0	Operate	Existed

8 Sliding switch (backward) Release Not existed 43 Operate 24 Sliding switch (forward) Release Not existed Is the inspection result normal?

YES >> INSPECTION END

>> Replace power seat switch. Refer to <u>ADP-114, "Removal and Installation"</u>. NO

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RECLINING SWITCH

Component Function Check

INFOID:000000009649647

1.CHECK FUNCTION

1. Select "RECLN SW-FR", "RECLN SW-RR" in "Data monitor" mode with CONSULT.

2. Check reclining switch signal under the following conditions.

Monitor item	Condition		Status
	RECLINE SW-FR Reclining switch (forward)	Operate	ON
RECEINE SW-I K		Release	OFF
RECLINE SW-RR	Declining quitch (healquerd)	Operate	ON
RECLINE SW-RR	Reclining switch (backward)	Release	OFF

Is the indication normal?

YES >> INSPECTION END NO >> Refer to <u>ADP-62, "Diagnosis Procedure"</u>.

Diagnosis Procedure

INFOID:000000009649648

1. CHECK RECLINING SWITCH INPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect power seat switch connector.
- 3. Turn ignition switch ON.
- 4. Check voltage between power seat switch harness connector and ground.

(+)		
Power seat switch		(-)	Voltage (V)
Connector	Terminals		
B559	9	Ground	9 – 16
B339	25	Ground	9 - 10

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK RECLINING SWITCH CIRCUIT

1. Turn ignition switch OFF.

2. Disconnect driver seat control unit connector.

 Check continuity between driver seat control unit harness connector and power seat switch harness connector.

Driver sea	t control unit	Power seat switch		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B552	9	B559	9	Existed
D002	25	6339	25	

4. Check continuity between driver seat control unit harness connector and ground.

Driver sea	Driver seat control unit		Continuity
Connector	Terminal	Ground	Continuity
B552	9	Ground	Not existed
D332	25		NUT EXISTED

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>ADP-111, "Removal and Installation"</u>.

RECLINING SWITCH

< DTC/CIRCUIT DIAG	NOSIS >				
NO >> Repair or re	eplace harness or cor	nnector.			
3. CHECK RECLINING	SWITCH				А
Refer to ADP-63, "Com	ponent Inspection".				
Is the inspection result	normal?				В
		er to <u>GI-42, "Intermittent li</u> er to <u>ADP-114, "Removal</u>			
Component Inspec	ction			INFOID:00000009649649	С
1.CHECK RECLINING	SWITCH				
	seat switch (reclining	switch) connector. vitch (reclining switch) ter	minals under the	following conditions.	D
Power seat switch	n (Reclining switch)	Condition		Continuity	
Terr	minal	Condition		Continuity	
9		Realiging switch (backword)	Operate	Existed	F
Э	43	Reclining switch (backward)	Release	Not existed	
25	43	Reclining switch (forward)	Operate	Existed	G
25			Release	Not existed	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power seat switch. Refer to <u>ADP-114</u>, "Removal and Installation".

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Revision: 2014 May

< DTC/CIRCUIT DIAGNOSIS >

LIFTING SWITCH (FRONT)

Component Function Check

1.CHECK FUNCTION

1. Select "LIFT FR SW-UP", "LIFT FR SW-DN" in "Data monitor" mode with CONSULT.

2. Check lifting switch (front) signal under the following conditions.

Monitor item	Co	Condition	
LIFT FR SW-UP	Lifting switch front (up)	Operate	ON
	Lining Switch Holit (up)	Release	OFF
LIFT FR SW-DN	Lifting switch front (down)	Operate	ON
LIFT FR SW-DN		Release	OFF

Is the indication normal?

YES >> INSPECTION END NO >> Refer to <u>ADP-64, "Diagnosis Procedure"</u>.

Diagnosis Procedure

INFOID:000000009649651

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1. CHECK LIFTING SWITCH (FRONT) INPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect power seat switch connector.
- 3. Turn ignition switch ON.
- 4. Check voltage between power seat switch harness connector and ground.

(•	+)		
Power seat switch		(-)	Voltage (V)
Connector	Terminals		
B559	10	Ground	9 – 16
0009	26	Gibuna	3-10

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK LIFTING SWITCH (FRONT) CIRCUIT

1. Turn ignition switch OFF.

2. Disconnect driver seat control unit connector.

 Check continuity between driver seat control unit harness connector and power seat switch harness connector.

Driver seat	control unit	Power seat switch		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B552	10	B559	10	Existed
D332	26	6339	26	LXISIEU

4. Check continuity between driver seat control unit harness connector and ground.

Driver sea	Driver seat control unit		Continuity
Connector	Terminal	Ground	Continuity
B552	10	Ground	Not existed
0002	26		INDI EXISIEU

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>ADP-111, "Removal and Installation"</u>.

LIFTING SWITCH (FRONT)

 NO
 >> Repair or replace harness or connector.

 3. CHECK LIFTING SWITCH (FRONT)

 Refer to <u>ADP-65, "Component Inspection"</u>.

 Is the inspection result normal?

 YES
 >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u>.

 NO
 >> Replace power seat switch. Refer to <u>ADP-114, "Removal and Installation"</u>.

 Component Inspection
 INFOID:00000000649652

 1. CHECK LIFTING SWITCH (FRONT)
 Intermittent front)

 1. Turn ignition switch OFF.
 Discomponent power cost switch (lifting switch front) connector.

2. Disconnect power seat switch (lifting switch front) connector.

3. Check continuity between power seat switch (lifting switch front) terminals under the following conditions.

Power seat switch (lifting switch front)		Condition		Orationity
	Term	Condition	I	Continuity
	10	Lifting switch front (down)	Operate	Existed
	10	Lifting switch front (down)	Release	Not existed
	20	Lifting quitch front (up)	Operate	Existed
	26	Lifting switch front (up)	Release	Not existed

Is the inspection result normal?

< DTC/CIRCUIT DIAGNOSIS >

YES >> INSPECTION END

NO >> Replace power seat switch. Refer to <u>ADP-114, "Removal and Installation"</u>.

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< DTC/CIRCUIT DIAGNOSIS >

LIFTING SWITCH (REAR)

Component Function Check

INFOID:000000009649653

1. CHECK FUNCTION

1. Select "LIFT RR SW-UP", "LIFT RR SW-DN" in "Data monitor" mode with CONSULT.

2. Check lifting switch (rear) signal under the following conditions.

Monitor item	Condition		Status
LIFT RR SW-UP	Lifting switch rear (up)	Operate	ON
	Litting Switch rear (up)	Release	OFF
LIFT RR SW-DN	Lifting switch rear (down)	Operate	ON
	Lining Switch real (down)	Release	OFF

Is the indication normal?

YES >> INSPECTION END

NO >> Refer to <u>ADP-66. "Diagnosis Procedure"</u>.

Diagnosis Procedure

INFOID:000000009649654

1.CHECK LIFTING SWITCH (REAR) INPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect power seat switch connector.
- 3. Turn ignition switch ON.
- 4. Check voltage between power seat switch harness connector and ground.

((+)		
Power se	Power seat switch		Voltage (V)
Connector	Terminals		
B559	11	Ground	9 – 16
6009	27	Ground	5-10

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK LIFTING SWITCH (REAR) CIRCUIT

1. Turn ignition switch OFF.

2. Disconnect driver seat control unit connector.

 Check continuity between driver seat control unit harness connector and power seat switch harness connector.

Driver sea	t control unit	Power seat switch		Continuity
Connector	Terminal	Connector Terminal		Continuity
B552	11	B559	11	Existed
D002	27	6339	27	LAISIEU

4. Check continuity between driver seat control unit harness connector and ground.

	Driver seat control unit			Continuity
_	Connector	Terminal	Ground	Continuity
_	B552	11	Ground	Not existed
	8002	27		NUL EXISIEU

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>ADP-111, "Removal and Installation"</u>.

LIFTING SWITCH (REAR)

< DTC/CIRCUIT DIAGNOSIS >

N	O >> Repair or r	eplace harness or co	onnector.			
3.0	CHECK LIFTING SV	WITCH (REAR)				А
Ref	er to ADP-67, "Com	ponent Inspection".				
<u>ls t</u>	ne inspection result	normal?				В
YE No			fer to <u>GI-42, "Intermitt</u> fer to <u>ADP-114, "Rem</u>			_
Co	mponent Inspe	ction			INFOID:00000009649655	С
1.0	CHECK LIFTING S	WITCH (REAR)				
1. 2. 3.		seat switch (lifting sv	witch rear) connector. switch (lifting switch re	ar) terminals under th	ne following conditions.	D
	Power seat switch	(lifting switch rear)	Com	dition	Continuity	
_	Term	ninal	Conc	dition	Continuity	
	11		Lifting switch rear (down)	Operate	Existed	F
	11	40		Release	Not existed	

Lifting switch rear (up)

Operate

Release

Is the inspection result normal?

27

YES >> INSPECTION END

NO >> Replace power seat switch. Refer to <u>ADP-114, "Removal and Installation"</u>.

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Existed

Not existed

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SEAT MEMORY SWITCH

Component Function Check

INFOID:000000009649656

1. CHECK FUNCTION

1. Select "MEMORY SW 1", "MEMORY SW 2", "SET SW" in "Data monitor" mode with CONSULT.

2. Check seat memory switch signal under the following conditions.

Monitor item		Condition	
MEMORY SW 1	Memory switch 1	Push	ON
MEMORT SW T	Memory Switch 1	Release	OFF
MEMORY SW 2	Momory owitch 2	Push	ON
WEWORT SW 2	Memory switch 2	Release	OFF
SET SW	Cot owitch	Push	ON
	Set switch	Release	OFF

Is the indication normal?

YES >> INSPECTION END

NO >> Refer to <u>ADP-68</u>, "Diagnosis Procedure".

Diagnosis Procedure

1.CHECK SEAT MEMORY SWITCH INPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect seat memory switch connector.
- 3. Turn ignition switch ON.
- 4. Check voltage between seat memory switch harness connector and ground.

	(+) Seat memory switch		Voltage (V)
Connector	Terminals		
	1		
D13	2	Ground	4 - 6
	3		

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK SEAT MEMORY SWITCH CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect driver seat control unit connector.
- 3. Check continuity between driver seat control unit harness connector and seat memory switch harness connector.

Driver sea	t control unit	Seat men	nory switch	Continuity
Connector	Terminal	Connector	Terminal	Continuity
	6		2	
B552	22	D13	1	Existed
	28		3	1

4. Check continuity between driver seat control unit harness connector and ground.

INFOID:000000009649657

SEAT MEMORY SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Driver seat control unit				Continuity	
Connector	Terr	minal		Continuity	
		6	Ground		
B552	2	22		Not existed	
	2	28			
		nit. Refer to <u>ADP-111</u>	, "Removal and Ins	tallation".	
CHECK SEAT MEMO					
heck continuity betwee			ctor and around		
	n seat memory s				
Seat	memory switch			Continuity	
Connector	Terr	minal	Ground	,	
D13 the inspection result no		4		Existed	
•CHECK SEAT MEMC efer to <u>ADP-69, "Comp</u> the inspection result n	onent Inspection	<u>"</u> -			
efer to <u>ADP-69, "Comp</u> the inspection result networks and the inspection result networks and the second se	onent Inspection ormal? nittent incident. R t memory switch. tion PRY SWITCH OFF. nory switch conn	Refer to <u>GI-42, "Intern</u> . Refer to <u>ADP-113, "</u> nector.	Removal and Insta	INFOID:00000000	
efer to <u>ADP-69. "Comp</u> the inspection result new YES >> Check intern NO >> Replace sea component Inspect .CHECK SEAT MEMC Turn ignition switch (Disconnect seat mer	onent Inspection ormal? nittent incident. R t memory switch. tiON ORY SWITCH OFF. mory switch conn ween seat memo	Refer to <u>GI-42, "Intern</u> . Refer to <u>ADP-113, "</u> nector. bry switch terminals u	Removal and Insta	INFOID:00000000	
efer to <u>ADP-69. "Comp</u> the inspection result new YES >> Check intern NO >> Replace sea Component Inspect CHECK SEAT MEMC Turn ignition switch (Disconnect seat mer Check continuity bet	onent Inspection ormal? nittent incident. R t memory switch. tion PRY SWITCH OFF. mory switch conn ween seat memo	Refer to <u>GI-42, "Intern</u> . Refer to <u>ADP-113, "</u> nector. bry switch terminals u	Removal and Insta	INFOID:00000000	
efer to <u>ADP-69. "Comp</u> the inspection result nervices and the inspection result nervices and the inspection of the inspect of	onent Inspection ormal? nittent incident. R t memory switch. tion PRY SWITCH OFF. mory switch conn ween seat memo	Refer to <u>GI-42, "Intern</u> Refer to <u>ADP-113, "</u> nector. bry switch terminals u	Removal and Insta	INFOID:00000000	
efer to <u>ADP-69. "Comp</u> <u>the inspection result no</u> YES >> Check intern NO >> Replace sea omponent Inspect .CHECK SEAT MEMC Turn ignition switch (Disconnect seat mer Check continuity bet Seat memo	onent Inspection ormal? nittent incident. R t memory switch. tion PRY SWITCH OFF. mory switch conn ween seat memo	Refer to <u>GI-42, "Intern</u> . Refer to <u>ADP-113, "</u> nector. bry switch terminals u	Removal and Insta	conditions.	
efer to <u>ADP-69. "Comp</u> the inspection result no YES >> Check intern NO >> Replace sea omponent Inspect .CHECK SEAT MEMC Turn ignition switch (Disconnect seat mer Check continuity bet Seat memo Termi 1	onent Inspection ormal? nittent incident. R t memory switch. tion PRY SWITCH OFF. mory switch conn ween seat memo ry switch nal	Refer to <u>GI-42, "Intern</u> Refer to <u>ADP-113, "</u> nector. bry switch terminals u <u>Memory switch 1</u>	Inder the following of Condition	conditions.	
efer to <u>ADP-69. "Comp</u> the inspection result nervices and the inspection result nervices and the inspection of the inspect of	onent Inspection ormal? nittent incident. R t memory switch. tion PRY SWITCH OFF. mory switch conn ween seat memo	Refer to <u>GI-42, "Intern</u> Refer to <u>ADP-113, "</u> nector. bry switch terminals u	Inder the following of Condition	conditions.	
efer to <u>ADP-69. "Comp</u> the inspection result nor YES >> Check intern NO >> Replace sea component Inspect .CHECK SEAT MEMC Disconnect seat mer Check continuity bet Seat memo Termi	onent Inspection ormal? nittent incident. R t memory switch. tion PRY SWITCH OFF. mory switch conn ween seat memo ry switch nal	Refer to <u>GI-42, "Intern</u> Refer to <u>ADP-113, "</u> nector. bry switch terminals u <u>Memory switch 1</u>	Inder the following of Condition	conditions.	

NO >> Replace seat memory switch. Refer to <u>ADP-113</u>, "Removal and Installation".

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DOOR MIRROR REMOTE CONTROL SWITCH

< DTC/CIRCUIT DIAGNOSIS >

DOOR MIRROR REMOTE CONTROL SWITCH MIRROR SWITCH

MIRROR SWITCH : Component Function Check

1.CHECK MIRROR SWITCH FUNCTION

Check the operation on "MIR CON SW–UP/DN" and "MIR CON SW–RH/LH" in "DATA MONITOR" mode with CONSULT.

Monitor item	Condition	
MIR CON SW-UP/DN	When operating the mirror switch toward the up or down side.	: ON
MIR CON SW-UP/DN	Other than the above.	: OFF
MIR CON SW-RH/LH	When operating the mirror switch toward the right or left side.	: ON
	Other than the above.	: OFF

Is the inspection result normal?

YES >> INSPECTION END

NO >> Refer to <u>ADP-70, "MIRROR SWITCH : Diagnosis Procedure"</u>.

MIRROR SWITCH : Diagnosis Procedure

INFOID:000000009649660

INEOID-000000009649659

1. CHECK MIRROR SWITCH INPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect door mirror remote control switch connector.
- 3. Turn ignition switch ON.
- 4. Check voltage between door mirror remote control switch harness connector and ground.

(•	(+)		Voltage (V)
Door mirror remo	Door mirror remote control switch		
Connector	Terminal		
	4		
D14	12	Cround	4 6
D14	13	Ground	4 - 6
	15		

Is the inspection result normal?

- YES >> GO TO 3.
- NO >> GO TO 2.

2. CHECK MIRROR SWITCH CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect automatic drive positioner control unit connector.
- 3. Check continuity between automatic drive positioner control unit harness connector and door mirror remote control switch harness connector.

Automatic drive po	Automatic drive positioner control unit		Door mirror remote control switch	
Connector	Terminal	Connector	Terminal	Continuity
	3	D14	15	
M75	4		13	Existed
	15		12	Existed
	16		4	-

4. Check continuity between automatic drive positioner control unit harness connector and ground.

DOOR MIRROR REMOTE CONTROL SWITCH

< DTC/CIRCUIT DIAGNOSIS >

	ive positioner control unit	-		Continuity
Connector	Termin	al		Continuity
	3		Ground	
M75	4		Cround	Not existed
WH O	15			Not oxisted
	16			
NO >> Repair or re CHECK DOOR MIRF Turn ignition switch	tomatic drive positio place harness. ROR REMOTE CON OFF.	ITROL SWIT		
-	r remote control switch			
Connector	Termin	al	Ground	Continuity
D14	7		Cround	Existed
the inspection result n	ormal?			
	mittent incident. Ref or mirror remote cor	ntrol switch.	Intermittent Incident".	
IIRROR SWITCH CHECK MIRROR SV Turn ignition switch Disconnect door min Check continuity be	VITCH OFF. rror remote control s	witch connec		INFOID:00000009
CHECK MIRROR SV Turn ignition switch Disconnect door mir Check continuity be Door mirror remo	VITCH OFF. rror remote control s tween door mirror re te control switch	witch connec		
CHECK MIRROR SV Turn ignition switch Disconnect door mir Check continuity be	VITCH OFF. rror remote control s tween door mirror re te control switch	witch connec	switch terminals unde	er the following conditions.
CHECK MIRROR SV Turn ignition switch Disconnect door mir Check continuity be Door mirror remo	VITCH OFF. rror remote control s tween door mirror re te control switch	witch connec	switch terminals unde Condition RIGHT	er the following conditions. Continuity Existed
CHECK MIRROR SV Turn ignition switch Disconnect door mir Check continuity be Door mirror remo	VITCH OFF. rror remote control s tween door mirror re te control switch	witch connec	Switch terminals under Condition RIGHT Other than the	er the following conditions. Continuity Existed above Not existed
CHECK MIRROR SV Turn ignition switch Disconnect door mir Check continuity be Door mirror remo Term 4	VITCH OFF. rror remote control s tween door mirror re te control switch	witch connec	switch terminals unde Condition RIGHT Other than the DOWN	er the following conditions. Continuity Existed above Not existed Existed
CHECK MIRROR SV Turn ignition switch Disconnect door mir Check continuity be Door mirror remo	VITCH OFF. rror remote control s tween door mirror re te control switch	witch connec	switch terminals unde Condition RIGHT Other than the DOWN Other than the	er the following conditions. Continuity Existed above Not existed Existed above Not existed
CHECK MIRROR SV Turn ignition switch Disconnect door mir Check continuity be Door mirror remo Term 4 12	VITCH OFF. rror remote control s tween door mirror re te control switch ninal	witch connec emote control	switch terminals unde Condition RIGHT Other than the DOWN	er the following conditions. Continuity Existed above Not existed Existed
CHECK MIRROR SV Turn ignition switch Disconnect door mir Check continuity be Door mirror remo Term 4	VITCH OFF. rror remote control s tween door mirror re te control switch ninal	witch connec emote control	switch terminals unde Condition RIGHT Other than the DOWN Other than the	er the following conditions. Continuity Existed above Not existed Existed above Not existed above Not existed Existed
CHECK MIRROR SV Turn ignition switch Disconnect door mir Check continuity be Door mirror remo Term 4 12	VITCH OFF. rror remote control s tween door mirror re te control switch ninal	witch connec emote control	switch terminals unde Condition RIGHT Other than the DOWN Other than the LEFT	er the following conditions. Continuity Existed above Not existed Existed above Not existed above Not existed Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace door mirror remote control switch.

CHANGEOVER SWITCH

DOOR MIRROR REMOTE CONTROL SWITCH

< DTC/CIRCUIT DIAGNOSIS >

CHANGEOVER SWITCH : Component Function Check

INFOID:000000009649662

1.CHECK CHANGEOVER SWITCH FUNCTION

Check the operation on "MIR CHNG SW-R" or "MIR CHNG SW-L" in "DATA MONITOR" mode with CON-SULT.

Monitor item	Condition	
MIR CHNG SW-R/L	When operating the changeover toward the right or left side.	: ON
	Other than the above.	: OFF

Is the inspection result normal?

YES >> INSPECTION END

NO >> Refer to ADP-72, "CHANGEOVER SWITCH : Diagnosis Procedure".

CHANGEOVER SWITCH : Diagnosis Procedure

INFOID:000000009649663

1. CHECK CHANGEOVER SWITCH INPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect door mirror remote control switch connector.
- Turn ignition switch ON. 3.
- 4. Check voltage between door mirror remote control switch harness connector and ground.

(+)			Voltage (V)
Door mirror remo	Door mirror remote control switch		
Connector	Terminal		
D14	10	Ground	4 - 6
	11	Cround	4 – 0

Is the inspection result normal?

YES >> GO TO 3. NO >> GO TO 2.

2.CHECK CHANGEOVER SWITCH CIRCUIT

1.

- Turn ignition switch OFF.
- 2. Disconnect automatic drive positioner control unit connector.
- Check continuity between automatic drive positioner control unit harness connector and door mirror 3. remote control switch harness connector.

Automatic drive p	Automatic drive positioner control unit		Door mirror remote control switch	
Connector	Terminal	Connector	Terminal	Continuity
M75	2	D14	11	Existed
1017 5	14		10	

Check continuity between automatic drive positioner control unit harness connector and ground. 4.

Automatic drive positioner control unit			Continuity	
Connector	Terminal	Ground	Continuity	
M75	2	Ground	Not existed	
W75	14	-	NOT EXISTED	

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to <u>ADP-112, "Removal and Installation"</u>. NO >> Repair or replace harness.

${f 3.}$ CHECK DOOR MIRROR REMOTE CONTROL SWITCH GROUND CIRCUIT

1. Turn ignition switch OFF.

Check continuity between door mirror remote control switch harness connector and ground. 2.

ADP-72

DOOR MIRROR REMOTE CONTROL SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Door mirror remo	ote control switch		Questionity
Connector	Terminal	Ground	Continuity
D14	7		Existed
Is the inspection result norma	al?		
YES >> GO TO 4.			
NO >> Repair or replace	e harness.		
4.CHECK CHANGEOVER	SWITCH		
Check door mirror remote co Refer to <u>ADP-73</u> , "CHANGE		ponent Inspection".	
Is the inspection result norma	al?		
	nt incident. Refer to <u>G</u> rror remote control sw	I-42, "Intermittent Incident". itch.	
CHANGEOVER SWIT	CH : Component	Inspection	INFOID:00000009649664
1. CHECK CHANGEOVER	SWITCH		
1. Turn ignition switch OFF			
2. Disconnect door mirror r			
3. Check continuity betwee	n door mirror remote c	control switch terminals under	the following conditions.
Door mirror remote cor	trol switch	Condition	Continuity
Terminal		Condition	Continuity

Door mirror remo	Door mirror remote control switch		Condition	
Tern	ninal	Condition		Continuity
10			LEFT	Existed
10	7		Other than the above	Not existed
11	I	Changeover switch	RIGHT	Existed
			Other than the above	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace door mirror remote control switch.

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POWER SEAT SWITCH GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

POWER SEAT SWITCH GROUND CIRCUIT

Diagnosis Procedure

INFOID:000000009649665

1. CHECK POWER SEAT SWITCH GROUND CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect power seat switch connector.
- 3. Check continuity between power seat switch harness connector and ground.

Power seat switch			Continuity
Connector	Terminal	Ground	Continuity
B559	43		Existed

- YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".
- NO >> Repair or replace harness or connector.

SLIDING SENSOR

Component	Function	Check
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1.CHECK FUNCTION

1. Select "SLIDE PULSE" in "Data monitor" mode with CONSULT.

2. Check sliding sensor signal under the following conditions.

Monitor item		Condition		
		Operate (forward)	Change (increase)*	
SLIDE PULSE	Seat sliding	Operate (backward)	Change (decrease)*	
		Release	No change [*]	

*: The value at the seat position attained when the battery is connected is considered to be 32768.

Is the indication normal?

YES >> INSPECTION END

NO >> Refer to <u>ADP-75, "Diagnosis Procedure"</u>.

Diagnosis Procedure

1.CHECK SLIDING SENSOR SIGNAL

- 1. Turn ignition switch ON.
- 2. Check signal between driver seat control unit harness connector and ground using an oscilloscope.

ا-) Driver seat		(-)	Co	ndition	Signal (V)
Connector	Terminals				(Reference value)
B552	18	Ground	Seat sliding	Operate Other than the above	$\frac{10 \text{mSec/div}}{10 \text{mSec/div}}$ $\frac{10 \text{mSec/div}}{2 \text{mSec/div}}$ $\frac{10 \text{mSec/div}}{2 \text{mSec/div}}$ $\frac{10 \text{mSec/div}}{2 \text{mSec/div}}$ $\frac{10 \text{mSec/div}}{2 \text{mSec/div}}$

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>ADP-111, "Removal and Installation"</u>. NO >> GO TO 2.

2. CHECK SLIDING SENSOR CIRCUIT

1. Turn ignition switch OFF.

2. Disconnect driver seat control unit connector and sliding sensor connector.

Check continuity between driver seat control unit harness connector and sliding sensor harness connector.

Driver seat	control unit	Sliding	g motor	Continuity	P
Connector	Terminal	Connector	Terminal	Continuity	I
B552	18	B561	18	Existed	-

4. Check continuity between driver seat control unit harness connector and ground.

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INFOID:00000009649666

SLIDING SENSOR

< DTC/CIRCUIT DIAGNOSIS >

Driver seat control unit			Continuity
Connector	Terminal	Ground	Continuity
B552	18		Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connector.

3.CHECK SLIDING SENSOR POWER SUPPLY

- 1. Connect driver seat control unit connector.
- 2. Turn ignition switch ON.

3. Check voltage between sliding motor harness connector and ground.

((+) Sliding motor		Voltage (V)
Sliding			
Connector	Terminals		
B561	12	Ground	9 – 16

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

4.CHECK SLIDING SENSOR POWER SUPPLY CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect driver seat control unit connector.
- 3. Check continuity between driver seat control unit harness connector and sliding motor harness connector.

Driver seat	Driver seat control unit		Sliding motor	
Connector	Terminal	Connector	Terminal	Continuity
B552	12	B561	12	Existed

4. Check continuity between driver seat control unit harness connector and ground.

Driver seat control unit			Continuity
Connector Terminal		Ground	Continuity
B552	B552 12		Not existed

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>ADP-111, "Removal and Installation"</u>.

NO >> Repair or replace harness or connector.

5.CHECK SLIDING SENSOR GROUND CIRCUIT

1. Turn ignition switch OFF.

2. Check continuity between sliding motor harness connector and ground.

Sliding motor			Continuity	
Connector Terminal		Ground	Continuity	
B561	43		Existed	

Is the inspection result normal?

YES >> Replace sliding motor.

NO >> Repair or replace harness or connector.

RECLINING	SENSOR	

Component Function Check

1.CHECK FUNCTION

1. Select "RECLN PULSE" in "Data monitor" mode with CONSULT.

2. Check reclining sensor signal under the following conditions.

Monitor item		Condition		
		Operate (forward)	Change (increase)*	
RECLN PULSE	Seat reclining	Operate (backward)	Change (decrease)*	[
		Release	No change [*]	

*: The value at the seat position attained when the battery is connected is considered to be 32768.

Is the indication normal?

YES >> INSPECTION END

NO >> Refer to <u>ADP-77, "Diagnosis Procedure"</u>.

Diagnosis Procedure

1.CHECK RECLINING SENSOR SIGNAL

- 1. Turn ignition switch ON.
- 2. Check signal between driver seat control unit harness connector and ground using an oscilloscope.

(+ Driver seat		(-)	Cor	ndition	Signal (V)	
Connector	Terminals				(Reference value)	
B552	4	Ground	Seat reclining	Operate Other than the above	10mSec/div 10mSec/div 2V/div JMJIA0119ZZ 0 - 1 or 4 - 6	ļ

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>ADP-111, "Removal and Installation"</u>. NO >> GO TO 2.

2. CHECK RECLINING SENSOR CIRCUIT

1. Turn ignition switch OFF.

2. Disconnect driver seat control unit connector and reclining motor connector.

Check continuity between driver seat control unit harness connector and reclining motor harness connector.

Driver seat	control unit	Reclining motor Continuity Connector Terminal		Continuity	P
Connector	Terminal			Continuity	I
B552	4	B554	4	Existed	-

4. Check continuity between driver seat control unit harness connector and ground.

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INFOID:00000009649668

RECLINING SENSOR

< DTC/CIRCUIT DIAGNOSIS >

Driver seat	control unit		Continuity	
Connector	Connector Terminal		Continuity	
B552	4		Not existed	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connector.

3.CHECK RECLINING SENSOR POWER SUPPLY

1. Connect driver seat control unit connector.

2. Turn ignition switch ON.

3. Check voltage between reclining motor harness connector and ground.

	(+)		
Reclini	ng motor	(-)	Voltage (V)
Connector	Terminals		
B554	12	Ground	9 – 16

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

4.CHECK RECLINING SENSOR POWER SUPPLY CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect driver seat control unit connector.
- Check continuity between driver seat control unit harness connector and reclining motor harness connector.

Driver seat control unit		Reclining motor		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B552	12	B554	12	Existed

4. Check continuity between driver seat control unit harness connector and ground.

Driver seat	control unit		Continuity
Connector	Terminal	Ground	Continuity
B552	12		Not existed

Is the inspection result normal?

- YES >> Replace driver seat control unit. Refer to <u>ADP-111, "Removal and Installation"</u>.
- NO >> Repair or replace harness or connector.

5.CHECK RECLINING SENSOR GROUND CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Check continuity between reclining motor harness connector and ground.

Reclinir	ng motor		Continuity
Connector	Terminal	Ground	Continuity
B554	43		Existed

Is the inspection result normal?

YES >> Replace reclining motor.

NO >> Repair or replace harness or connector.

LIFTING SENSOR (FRONT)

Component Function Check

1.CHECK FUNCTION

- 1. Select "LIFT FR PULSE" in "Data monitor" mode with CONSULT.
- 2. Check the lifting sensor (front) signal under the following conditions.

Monitor item	Condition		Value	0
		Operate (up)	Change (increase)*	
LIFT FR PULSE	Seat lifting (front)	Operate (down)	Change (decrease)*	D
		Release	No change [*]	

*: The value at the seat position attained when the battery is connected is considered to be 32768.

Is the indication normal?

- YES >> INSPECTION END
- NO >> Refer to <u>ADP-79, "Diagnosis Procedure"</u>.

Diagnosis Procedure

1.CHECK LIFTING SENSOR (FRONT) SIGNAL

- 1. Turn ignition switch ON.
- 2. Check signal between driver seat control unit harness connector and ground using an oscilloscope.

(+	+)				
Driver seat	control unit	(-)	Co	ndition	Signal (V) (Reference value)
Connector	Terminals				
B552	19	Ground	Seat Lifting (front)	Operate Other than the	10mSec/div
				Other than the above	0 – 1 or 4 – 6

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>ADP-111, "Removal and Installation"</u>. NO >> GO TO 2.

NO >> GO IO 2

2.CHECK LIFTING SENSOR (FRONT) CIRCUIT

1. Turn ignition switch OFF.

- 2. Disconnect driver seat control unit connector and lifting motor (front) connector.
- Check continuity between driver seat control unit harness connector and lifting motor (front) harness connector.

 Driver seat control unit		Lifting motor (front)		Continuity	Р
 Connector	Terminal	Connector	Continuity	1	
B552	19	B555	19	Existed	

4. Check continuity between driver seat control unit harness connector and ground.

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INFOID:00000009649670

LIFTING SENSOR (FRONT)

< DTC/CIRCUIT DIAGNOSIS >

Driver seat	control unit		Continuity
Connector	Terminal	Ground	Continuity
B552	19		Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connector.

3.CHECK LIFTING SENSOR (FRONT) POWER SUPPLY

1. Connect driver seat control unit connector.

2. Turn ignition switch ON.

3. Check voltage between lifting motor (front) harness connector and ground.

(+)			
Lifting motor (front)		(-)	Voltage (V)	
Connector	Connector Terminals			
B555	12	Ground	9 – 16	

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

4.CHECK LIFTING SENSOR (FRONT) POWER SUPPLY CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect driver seat control unit connector.
- Check continuity between driver seat control unit harness connector and lifting motor (front) harness connector.

Driver seat	Driver seat control unit		Lifting motor (front)	
Connector	Terminal	Connector Terminal		Continuity
B552	12	B555	12	Existed

4. Check continuity between driver seat control unit harness connector and ground.

Driver seat	control unit		Continuity	
Connector	Connector Terminal		Continuity	
B552	12		Not existed	

Is the inspection result normal?

- YES >> Replace driver seat control unit. Refer to <u>ADP-111, "Removal and Installation"</u>.
- NO >> Repair or replace harness or connector.

${f b.}$ CHECK LIFTING SENSOR (FRONT) GROUND CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Check continuity between lifting motor (front) harness connector and ground.

Lifting mo	otor (front)		Continuity	
Connector	Terminal	Ground	Continuity	
B555	43		Existed	

Is the inspection result normal?

YES >> Replace lifting motor (front).

NO >> Repair or replace harness or connector.

< DTC/CIRCUIT DIAGNOSIS >	
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LIFTING SENSOR (REAR)

Component Function Check

1.CHECK FUNCTION

1. Select "LIFT RR PULSE" in "Data monitor" mode with CONSULT.

2. Check lifting sensor (rear) signal under the following conditions.

Monitor item		Condition		
		Operate (up)	Change (increase)*	
LIFT RR PULSE	Seat lifting (rear)	Operate (down)	Change (decrease)*	
		Release	No change [*]	

*: The value at the seat position attained when the battery is connected is considered to be 32768.

Is the indication normal?

YES >> INSPECTION END

NO >> Refer to <u>ADP-81, "Diagnosis Procedure"</u>.

Diagnosis Procedure

1.CHECK LIFTING SENSOR (REAR) SIGNAL

1. Turn ignition switch ON.

2. Check signal between driver seat control unit harness connector and ground using an oscilloscope.

(+)						
Driver seat control unit		(-)	Condition Signal (V) (Reference value)		(Reference value)	
Connector	Terminals				(,	
B552	20	Ground	Seat Lifting (rear)	Operate Other than the	$\frac{10 \text{mSec/div}}{10 \text{mSec/div}}$ $\frac{10 \text{mSec/div}}{2 \text{mSec/div}}$ $\frac{10 \text{mSec/div}}{2 \text{mSec/div}}$ $\frac{10 \text{mSec/div}}{2 \text{mSec/div}}$	A

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>ADP-111, "Removal and Installation"</u>. NO >> GO TO 2.

NO >> GO TO Z.

2.CHECK LIFTING SENSOR (REAR) CIRCUIT

1. Turn ignition switch OFF.

- 2. Disconnect driver seat control unit connector and lifting motor (rear) connector.
- Check the continuity between driver seat control unit harness connector and lifting motor (rear) harness

 connector.

Driver seat	Driver seat control unit		Lifting motor (rear)		Lifting motor (rear)				P
Connector	Terminal	Connector	Terminal	Continuity	1				
B552	20	B556	20	Existed					

4. Check the continuity between driver seat control unit harness connector and ground.

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INFOID:000000009649672

LIFTING SENSOR (REAR)

< DTC/CIRCUIT DIAGNOSIS >

Driver seat	control unit		Continuity
Connector	Terminal	Ground	Continuity
B552	20		Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connector.

3. CHECK LIFTING SENSOR (REAR) POWER SUPPLY

- 1. Connect driver seat control unit connector.
- 2. Turn ignition switch ON.
- 3. Check the voltage between lifting motor (rear) harness connector and ground.

(+)			
Lifting motor (rear)		(-)	Voltage (V)	
Connector	Connector Terminals			
B556	12	Ground	9 – 16	

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

4. CHECK LIFTING SENSOR (REAR) POWER SUPPLY CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect driver seat control unit connector.
- 3. Check the continuity between driver seat control unit harness connector and lifting motor (rear) harness connector.

Driver seat	Driver seat control unit		Lifting motor (rear)		
Connector	Terminal	Connector Terminal		Continuity	
B552	12	B556	12	Existed	

4. Check the continuity between driver seat control unit harness connector and ground.

Driver seat	control unit		Continuity	
Connector	Terminal	Ground	Continuity	
B552	B552 12		Not existed	

Is the inspection result normal?

- YES >> Replace driver seat control unit. Refer to <u>ADP-111, "Removal and Installation"</u>.
- NO >> Repair or replace harness or connector.

${f b.}$ CHECK LIFTING SENSOR (REAR) GROUND CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Check the continuity between lifting motor (rear) harness connector and ground.

Lifting mo	otor (rear)		Continuity	
Connector	ConnectorTerminalB55643		Continuity	
B556			Existed	

Is the inspection result normal?

YES >> Replace lifting motor (rear).

NO >> Repair or replace harness or connector.

/IRROR SENS(DRIVER SIDE)R			
ORIVER SIDE : Co	omponent Func	tion Check		INFOID:000000009649674
CHECK FUNCTION				
	H U-D", "MIR/SEN LI or (driver side) signal		onitor" with CONSUL	Т.
Monitor ite	m	Condition		Value
MIR/SEN LH U-D	Deere	airrar (drivar aida)	Change be 3.4 [V] (clos 0.6 [V] (clos	
MIR/SEN LH R-L	D00111	nirror (driver side)		tween se to left edge) se to right edge)
s the indication normal? YES >> INSPECTIONO >> Refer to AD		E : Diagnosis Pro	ocedure".	
DRIVER SIDE : Di	agnosis Proced	lure		INFOID:000000009649675
CHECK DOOR MIRE	ROR (DRIVER SIDE		ER SUPPLY	
5. Turn ignition switch	irror (driver side) con		connector and ground	
		,		d.
Door	(+)	,		
Door	(+) mirror (driver side) Termina		(-)	d. Voltage (V)
Connector D43	mirror (driver side) Termina 23			
Connector D43 the inspection result r YES >> GO TO 3. NO >> GO TO 2. CHECK DOOR MIRF . Turn ignition switch . Disconnect automa	mirror (driver side) Termina 23 normal? ROR (DRIVER SIDE OFF. tic drive positioner co between automatic co	als) SENSOR POWI	(-) Ground ER SUPPLY CIRCUI ^T tor.	Voltage (V) 4 – 6
Connector D43 the inspection result r YES >> GO TO 3. NO >> GO TO 2. CHECK DOOR MIRF . Turn ignition switch Disconnect automa . Check continuity b (driver side) harnes	mirror (driver side) Termina 23 normal? ROR (DRIVER SIDE OFF. tic drive positioner co between automatic co	als) SENSOR POWI ontrol unit connec drive positioner co	(-) Ground ER SUPPLY CIRCUI ^T tor.	Voltage (V) 4-6
Connector D43 the inspection result r YES >> GO TO 3. NO >> GO TO 2. CHECK DOOR MIRF . Turn ignition switch Disconnect automa . Check continuity b (driver side) harnes	mirror (driver side) Termina 23 normal? ROR (DRIVER SIDE OFF. tic drive positioner co between automatic co ss connector.	als) SENSOR POWI ontrol unit connec drive positioner co	(-) Ground ER SUPPLY CIRCUIT tor. ontrol unit harness of	Voltage (V) 4 – 6
Connector D43 the inspection result r YES >> GO TO 3. NO >> GO TO 2. CHECK DOOR MIRE . Turn ignition switch Disconnect automa . Check continuity b (driver side) harnes Automatic drive post Connector M75	mirror (driver side) Termina 23 normal? ROR (DRIVER SIDE OFF. tic drive positioner co between automatic of ss connector. sitioner control unit Terminal 21	als) SENSOR POWI ontrol unit connec drive positioner co Door m Connector D43	(-) Ground ER SUPPLY CIRCUIT tor. ontrol unit harness of hirror (driver side) Terminal 23	Voltage (V) 4-6 Connector and door mirror Continuity Existed
Connector D43 the inspection result r YES >> GO TO 3. NO >> GO TO 2. CHECK DOOR MIRE Turn ignition switch Disconnect automa Check continuity b (driver side) harnes Automatic drive pos Connector M75	mirror (driver side) Termina 23 normal? ROR (DRIVER SIDE OFF. tic drive positioner co between automatic of ss connector. sitioner control unit Terminal 21	als) SENSOR POWI ontrol unit connec drive positioner co Door m Connector D43	(-) Ground ER SUPPLY CIRCUIT tor. ontrol unit harness of hirror (driver side) Terminal	Voltage (V) 4-6 Connector and door mirror Continuity Existed
Connector D43 the inspection result r YES >> GO TO 3. NO >> GO TO 2. CHECK DOOR MIRF Turn ignition switch Disconnect automa Check continuity b (driver side) harnes Automatic drive pos Connector M75 Check continuity be	mirror (driver side) Termina 23 normal? ROR (DRIVER SIDE OFF. tic drive positioner co between automatic of ss connector. sitioner control unit Terminal 21	als) SENSOR POWE ontrol unit connec drive positioner co Connector Door m Connector D43 ve positioner cont	(-) Ground ER SUPPLY CIRCUIT tor. ontrol unit harness of hirror (driver side) Terminal 23	Voltage (V) 4 – 6 Connector and door mirror Continuity Existed ector and ground.
Connector D43 S the inspection result r YES >> GO TO 3. NO >> GO TO 2. CHECK DOOR MIRF . Turn ignition switch . Disconnect automatic . Check continuity b (driver side) harnes Automatic drive position . M75 . Check continuity be	mirror (driver side) Termina 23 normal? ROR (DRIVER SIDE OFF. tic drive positioner co between automatic co sitioner control unit Terminal 21 etween automatic drive	als als b) SENSOR POWI control unit connect drive positioner con Connector D43 ve positioner cont t	(-) Ground ER SUPPLY CIRCUIT tor. ontrol unit harness of hirror (driver side) Terminal 23	Voltage (V) 4-6 Connector and door mirror Continuity Existed

YES >> Replace automatic drive positioner control unit. Refer to <u>ADP-112, "Removal and Installation"</u>. NO >> Repair or replace harness or connector.

ADP-83

MIRROR SENSOR

< DTC/CIRCUIT DIAGNOSIS >

3. check door mirror (driver side) sensor ground circuit

- 1. Turn ignition switch OFF.
- 2. Disconnect automatic drive positioner control unit connector.
- 3. Check continuity between automatic drive positioner control unit harness connector and door mirror (driver side) harness connector.

Automatic drive po	Automatic drive positioner control unit Connector Terminal		Door mirror (driver side)	
Connector			Terminal	Continuity
M75	20	D43	24	Existed

4. Check continuity between automatic drive positioner control unit harness connector and ground.

Automatic drive po	sitioner control unit		Continuity	
Connector	ConnectorTerminalM7520		Continuity	
M75			Not existed	

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness or connector.

4.CHECK DOOR MIRROR (DRIVER SIDE) SENSOR CIRCUIT

1. Check continuity between automatic drive positioner control unit harness connector and door mirror (driver side) harness connector.

Automatic drive p	ositioner control unit	Door mirror	Continuity	
Connector	Terminal	Connector	Terminal	Continuity
M75	M75 6		21	Existed
10175	18	D43	22	Existed

2. Check continuity between automatic drive positioner control unit harness connector and ground.

Automatic drive po	sitioner control unit		Continuity	
Connector	Connector Terminal		Continuity	
M75	6	Ground	Not existed	
1017 5	18		NOT EXISTED	

Is the inspection result normal?

YES >> Replace door mirror sensor (built in driver side door mirror).

NO >> Repair or replace harness or connector.

PASSENGER SIDE

PASSENGER SIDE : Component Function Check

INFOID:000000009649676

1.CHECK FUNCTION

1. Select "MIR/SEN RH U-D", "MIR/SEN RH R-L" in "Data monitor" with CONSULT.

2. Check the mirror sensor (passenger side) signal under the following conditions.

Monitor item	Condition	Value	
MIR/SEN RH U-D	Door mirror (pooponger side)	Change between 3.4 [V] (close to peak) 0.6 [V] (close to valley)	
MIR/SEN RH R-L	- Door mirror (passenger side)	Change between 3.4 [V] (close to left edge) 0.6 [V] (close to right edge)	

Is the indication normal?

YES >> INSPECTION END

MIRROR SENSOR

O >> Refer to A	<u> DP-85, "PASSENGER</u>	CODE . Diagnosis		
SSENGER SID	E : Diagnosis Pi	rocedure		INFOID:0000000096
CHECK DOOR MIR	ROR SENSOR (PAS	SENGER SIDE) PO	OWER SUPPLY	
Turn ignition switch Disconnect door m Turn ignition switch	oOFF. irror (passenger side)) connector.		bund.
	(+)			
Door m	irror (passenger side)		(-)	Voltage (V)
Connector	Termina	als		
D3 the inspection result	23		Ground	4 – 6
Turn ignition switch Disconnect automa	tic drive positioner co	ontrol unit connecto	pr.	CUIT ctor and door mirror (p
				1
Automatic drive po	sitioner control unit	Door mirror	(passenger side)	Continuity
Automatic drive po Connector	sitioner control unit Terminal	Door mirror Connector	(passenger side) Terminal	Continuity
Connector M75	Terminal 21	Connector D3	Terminal 23	Existed
Connector M75 Check continuity be	Terminal	Connector D3 /e positioner contro	Terminal 23	Existed
Connector M75 Check continuity be Automatic d Connector M75 the inspection result	Terminal 21 etween automatic driv rive positioner control unit Termina 21 normal?	Connector D3 ve positioner contro	Terminal 23 I unit harness conner Ground	Existed ctor and ground. Continuity Not existed
Connector M75 Check continuity be Automatic d Connector M75 the inspection result ES >> Replace au O >> Repair or re CHECK DOOR MIR Turn ignition switch Disconnect automatic	Terminal 21 etween automatic driver rive positioner control uniter Termina 21 normal? utomatic drive positioner eplace harness or control ROR (PASSENGER A OFF. atic drive positioner control etween automatic driver	Connector D3 ve positioner contro al ner control unit. Rei nnector. SIDE) SENSOR Gi ontrol unit connector	Terminal 23 ol unit harness connect Ground fer to ADP-112, "Rem ROUND CIRCUIT or.	Existed ctor and ground. Continuity
Connector M75 Check continuity be Automatic d Connector M75 the inspection result ES >> Replace au O >> Repair or re CHECK DOOR MIR Turn ignition switch Disconnect automa Check continuity be senger side) connect	Terminal 21 etween automatic driver rive positioner control uniter Termina 21 normal? utomatic drive positioner eplace harness or control ROR (PASSENGER A OFF. atic drive positioner control etween automatic driver	Connector D3 ve positioner contro al ner control unit. Rei nnector. SIDE) SENSOR Gi ontrol unit connector ve positioner contro	Terminal 23 ol unit harness connect Ground fer to ADP-112, "Rem ROUND CIRCUIT or.	Existed ctor and ground. Continuity Not existed
Connector M75 Check continuity be Automatic d Connector M75 the inspection result ES >> Replace au O >> Repair or re CHECK DOOR MIR Turn ignition switch Disconnect automa Check continuity be senger side) connect	Terminal 21 etween automatic driv rive positioner control unit Termina 21 normal? utomatic drive positior eplace harness or con ROR (PASSENGER OFF. tic drive positioner co etween automatic drive positioner co	Connector D3 ve positioner contro al ner control unit. Rei nnector. SIDE) SENSOR Gi ontrol unit connector ve positioner contro	Terminal 23 ol unit harness connect Ground fer to ADP-112. "Rem ROUND CIRCUIT or. ol unit harness connect	Existed ctor and ground. Continuity Not existed noval and Installation".
Connector M75 Check continuity be Automatic d Connector M75 the inspection result ES >> Replace au O >> Repair or re CHECK DOOR MIR Turn ignition switch Disconnect automa Check continuity be senger side) connect	Terminal 21 etween automatic driver rive positioner control unit Termina 21 normal? utomatic drive positioner eplace harness or control unit ROR (PASSENGER a OFF. atic drive positioner control unit extor.	Connector D3 ve positioner contro al ner control unit. Rennector. SIDE) SENSOR G ontrol unit connector ve positioner contro	Terminal 23 ol unit harness connect Ground fer to <u>ADP-112, "Rem</u> ROUND CIRCUIT or. ol unit harness connect (passenger side)	Existed ctor and ground. Continuity Not existed
Connector M75 Check continuity be Automatic d Connector M75 the inspection result ES >> Replace au O >> Repair or re CHECK DOOR MIR Turn ignition switch Disconnect automa Check continuity be senger side) connect Automatic drive po Connector M75	Terminal 21 etween automatic driv rive positioner control unit Termina 21 normal? utomatic drive positioner eplace harness or con ROR (PASSENGER OFF. tic drive positioner co etween automatic driv ector.	Connector D3 ve positioner contro al ner control unit. Rennector. SIDE) SENSOR G ontrol unit connector ve positioner contro Door mirror Connector D3	Terminal 23 ol unit harness conner Ground fer to ADP-112, "Rem ROUND CIRCUIT or. ol unit harness conner (passenger side) Terminal 24	Existed ctor and ground. Continuity Not existed noval and Installation". ctor and door mirror (p Continuity Existed
Connector M75 Check continuity be Automatic d Connector M75 the inspection result ES >> Replace au O >> Repair or re CHECK DOOR MIR Turn ignition switch Disconnect automa Check continuity be senger side) connect Automatic drive por Connector M75 Check continuity be	Terminal 21 etween automatic driver rive positioner control unit Terminal 21 normal? utomatic drive positioner eplace harness or control automatic driver a OFF. atic drive positioner control unit Control unit Terminal 20	Connector D3 ve positioner contro al ner control unit. Rei nnector. SIDE) SENSOR Gi ontrol unit connector ve positioner contro Door mirror Connector D3 ve positioner contro	Terminal 23 ol unit harness conner Ground fer to ADP-112, "Rem ROUND CIRCUIT or. ol unit harness conner (passenger side) Terminal 24	Existed Ctor and ground. Continuity Not existed noval and Installation". Continuity Continuity Existed Continuity
Connector M75 Check continuity be Automatic d Connector M75 the inspection result ES >> Replace au O >> Repair or re CHECK DOOR MIR Turn ignition switch Disconnect automa Check continuity be senger side) connect Automatic drive por Connector M75 Check continuity be	Terminal 21 etween automatic driver rive positioner control unit Terminal 21 normal? utomatic drive positioner control unit ROR (PASSENGER and the positioner control unit) a OFF. a OFF. a tic drive positioner control unit control unit Terminal 20 etween automatic driver a control unit	Connector D3 ve positioner contro al ner control unit. Rennector. SIDE) SENSOR G ontrol unit connector ve positioner contro Door mirror Connector D3 ve positioner contro	Terminal 23 ol unit harness conner Ground fer to ADP-112, "Rem ROUND CIRCUIT or. ol unit harness conner (passenger side) Terminal 24	Existed ctor and ground. Continuity Not existed noval and Installation". ctor and door mirror (p Continuity Existed

MIRROR SENSOR

< DTC/CIRCUIT DIAGNOSIS >

4. CHECK DOOR MIRROR (PASSENGER SIDE) SENSOR CIRCUIT

1. Check continuity between automatic drive positioner control unit harness connector and door mirror (passenger side) harness connector.

Automatic drive po	Automatic drive positioner control unit		Door mirror (passenger side)		
Connector	Terminal	Connector	Terminal	Continuity	
M75	5	D3	21	Existed	
1017.5	17	60	22	LASIEU	

2. Check continuity between automatic drive positioner control unit harness connector and ground.

Automatic drive p	ositioner control unit		Continuity
Connector	Terminal	Ground	Conunaity
M75	5	Ground	Not existed
1017 5	M75 17		NOT EXISTED

Is the inspection result normal?

YES >> Replace door mirror sensor (built in passenger side door mirror).

NO >> Repair or replace harness or connector.

SLIDING MOTOR

		·			N			
< DTC/CIRCUIT DIA		IS >						
SLIDING MOT	OR							
Component Fun	ction	Check						INFOID:000000009649678
	N							
. Select "SEAT SL		"Active test" m	ode with C.					
. Check the sliding				UNCOLI.				
	Test	item				Desc	ription	
		OFF					Stop	
SEAT SLIDE		FR		Seat sliding	g		Forward	
		RR					Backward	1
the operation of rel YES >> INSPEC NO >> Refer to iagnosis Proce	TION E ADP-87		Procedure".					
•								INFOID:000000009649679
.CHECK SLIDING			AL					
Turn ignition swit Disconnect slidin								
Turn ignition swit Perform "Active t Check voltage be	ch ON. est" ("S	EAT SLIDE") w			around			
					ground.			
(+)			()		Cond	:1:00		
Sliding I Connector		ninals	(-)		Cond	luon		Voltage (V)
		34				OFF		0 – 1
B561			Ground	SEAT SLID	DE	Backward	b	9 – 16
2001	3	38			OF		OFF	0 – 1
						Forward		9 – 16
NO >> GO TO 2 CHECK SLIDING Turn ignition swit Disconnect drive	sliding 2. MOTOI ch OFF r seat c	motor (built in s R CIRCUIT : ontrol unit conr	nector.			and slidi	ng motor	harness connector.
Driver se	eat contro	ol unit		Slidin	g motor			
Connector		Terminal	Con	nector	-	Terminal		Continuity
B551		34	D	561		34		Existed
		38				38		
Check continuity	betwee	en driver seat c	ontrol unit h	narness co	nnector	and grou	und.	
D	river seat	control unit						Continuity
Connector		Termi	nal]	Ground			Continuity
B551		34			Ground			Not existed
		38						

Is the inspection result normal?

SLIDING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

- YES >> Replace driver seat control unit. Refer to <u>ADP-111, "Removal and Installation"</u>.
- NO >> Repair or replace harness or connector.

RECLINING MOTOR

COTC/CIRCUIT D									
Component Fu			k						INFOID:000000009649680
	ION								
I. Select "SEAT F 2. Check the recli				st" mode v	with CONSL	JLT.			
	Test	item					Desc	ription	
		OFF					2000	Stop	
SEAT RECLINING		FR			Seat reclini	ng		Forward	
		RR						Backwai	ď
the operation of YES >> INSPE NO >> Refer t	CTION E o <u>ADP-89</u>	ND		ocedure".					
iagnosis Prod	Jedure								INFOID:000000009649681
.CHECK RECLIN	NING MO	TOR IN		SNAL					
 Disconnect rec Turn ignition sv Perform "Active Check voltage 	vitch ON. e test" ("S	EAT RI	ECLININ			id gro	ound.		
(+)								
	ng motor		(-)		Con	dition		Voltage (V)
Connector	Termi	nals					OFF		0 – 1
	35	5					Forward		9 – 16
B554			Gro	ound	SEAT RECLIN	IING	OFF		0 – 1
	39						Backward		9 – 16
the inspection re YES >> Replace NO >> GO TO CHECK RECLIN Turn ignition sv Disconnect driv Check continui tor.	e reclinin 2. NING MO vitch OFF /er seat c	g moto TOR C ontrol u	IRCUIT	ector.		nnecto	or and rec	lining mo	otor harness connec-
Driver	seat contro	ol unit			Reclinir	ng moto	or		
Connector		Termi	nal	Cor	nector		Terminal		Continuity
B551		35 39		В	3554		35 39		Existed
Check continui	ty betwee	en drive	r seat co	ntrol unit l	harness cor	nnecto	or and gro	und.	
	Driver seat	control	unit						<u> </u>
Connecto			Termin	al	-				Continuity
			35		-	Ground	d		
B551			39		-				Not existed

- YES >> Replace driver seat control unit. Refer to <u>ADP-111, "Removal and Installation"</u>.
- NO >> Repair or replace harness or connector.

< DTC/CIRCUIT			NG MO	FOR (FR	ON	Т)		
LIFTING MC								
Component F	•	,						INFOID:000000009649682
1.CHECK FUNC								
1. Select "SEAT	LIFTER F	R" in "Active tes		ith CONSU	LT.			
2. Check the lifti	ng motor (front) operation.						
	Tes	t item				Desc	ription	
SEAT LIFTER FR		OFF UP		Seat lifting	(front)		Stop Upward	
SEAT EILTERTR		DWN			(nont)		Downward	
Is the operation of	relevant p							
	ECTION E to <u>ADP-9</u> 1	ND 1, "Diagnosis Pr	<u>ocedure"</u> .					
Diagnosis Pro	ocedure							INFOID:000000009649683
1.CHECK LIFTIN	IG MOTO	R (FRONT) INP	UT SIGNA	L				
1. Turn ignition								
 Disconnect lif Turn ignition s 		(front) connecto	or.					
4. Perform "Activ	ve test" ("S	SEAT LIFTER FR	R") with CC	ONSULT.	ام مر م			
5. Check voltage	e between	lifting motor (fro	nt) narnes	s connecto	or and	grouna.		
	+)							
	otor (front)	(-)			Con	dition		Voltage (V)
Connector	Termin	ais				OFF		0 – 1
	36					Downward		9 – 16
B555	40	Grou	ind S	EAT LIFTER	FR	OFF		0 – 1
	40			Upward			9 – 16	
Is the inspection r YES >> Repla NO >> GO T 2.CHECK LIFTIN	ice lifting n O 2.	notor (front) (bui		ushion fran	ne).			
 Turn ignition s Disconnect di 	switch OFF iver seat c	- control unit conn	ector.	narness cor	nnect	or and liftir	ng motor (front) harness con-
Driv	er seat contro	ol unit		Lifting mo	otor (fr	ont)		Continuity
Connector		Terminal	Con	nector		Terminal		
B551		36 40	B	555		36 40		Existed
4. Check continu	uity betwee	en driver seat co	ontrol unit h	narness cor	nnect	or and gro	und.	
	Driver sea	t control unit						
Connec	tor	Termin	al		Groun	d		Continuity
B551		36		_	Stouri	4	1	Not existed
		40						

- YES >> Replace driver seat control unit. Refer to <u>ADP-111, "Removal and Installation"</u>.
- NO >> Repair or replace harness or connector.

	DTC/CIRCUIT DIAG		FING MO	TOR (RE	EAR)			
	FTING MOTO							
	mponent Funct	· · · ·						INFOID:000000009649684
	CHECK FUNCTION							
1. 2.	Select "SEAT LIFT Check the lifting me			ith CONSU	LT.			
-		Test item				Desc	ription	
-		OFF					Stop	
	SEAT LIFTER RR	UP		Seat lifting (rear)		Upward	
		DWN					Downwar	d
YI Ni Dia	he operation of relev ES >> INSPECTIO O >> Refer to <u>AL</u> agnosis Proced CHECK LIFTING MO	DN END DP-93, "Diagnosis I ure						INFOID:000000009649685
1. 2. 3. 4. 5.	Turn ignition switch Disconnect lifting m Turn ignition switch Perform "Active tes Check voltage betw (+)	notor (rear) connect ON. it" ("SEAT LIFTER F	RR") with CO		and g	round.		
_	(+) Lifting motor	(rear)	(-)		Con	dition		Voltage (V)
-	Connector	Terminals					voliago (v)	
-						OFF		0 – 1 A
	B556	41	Ground	SEAT LIFTE		Upward		9 – 16
	6000	42	Ground	SEAT LIFTE		OFF		0 – 1
		72		Downwar		ď	9 – 16	
YI N		DTOR (REAR) CIR	CUIT			r and lifti	ng motor	(rear) harness con-
-	Driver seat	control unit		Lifting mo	otor (rea	r)		Continuity
-	Connector	Terminal	Con	nector		Terminal		Continuity
_	B551	41	— B	556		41 42		Existed
4.	Check continuity be		ontrol unit h	narness cor	inector		und.	
-	Drive	er seat control unit						
_	Connector	Term	inal	-				Continuity
_	B551	41		- (Ground			Not existed
-							1	

- YES >> Replace driver seat control unit. Refer to <u>ADP-111, "Removal and Installation"</u>.
- NO >> Repair or replace harness or connector.

< DTC/CIRCL	IIT DIAGNO	SIS >				
DOOR MI	RROR M	OTOR				_
Component	t Function	Check			INFOID:00000000964968	A 6
1.снеск ос	OR MIRRO		UNCTION			В
Check the ope	eration with "	MIRROR MC	DTOR RH" and "MIRROR MC	DTOR LH" in "ACTIVE	TEST" mode with	1
Refer to ADP-						С
Is the inspection						
-	SPECTION		s Procedure".			D
Diagnosis F					INFOID:00000000964968	7
					NN 012.00000000000000000000000000000000000	E
1.CHECK DC	OR MIRRO	R MOTOR IN	IPUT SIGNAL			_
	on switch OF ct door mirror					
3. Turn igniti	on switch ON	۱.				F
	tage betweer	n door mirror	harness connector and groun	nd.		
[Driver side]	+)					G
	mirror	(-)	Condition	ſ	Voltage (V)	
Connector	Terminals					Н
	10			DOWN / RIGHT	9 – 16	
	10			Other than the above	0 – 1	
D43	11	Ground	Door mirror remote control switch	LEFT	9 – 16	I
		-		Other than the above	0 – 1	
	12			UP Others then the shour	9-16	ADF
				Other than the above	0 – 1	

[Passenger side]

(-	+)					
Door	mirror	(-)	Condition	า	Voltage (V)	
Connector	Terminals					
	10			DOWN / RIGHT	9 – 16	
10			Other than the above	0 – 1	-	
D2	11	Cround	Door mirror romate control quitab	LEFT	9 – 16	
D3	D3 11 Ground	Ground	Door mirror remote control switch	Other than the above	0 – 1	
	40			UP	9 – 16	
	12			Other than the above	0 – 1	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK DOOR MIRROR MOTOR CIRCUIT

1. Turn ignition switch OFF.

2. Disconnect automatic drive positioner control unit connector.

3. Check continuity between automatic drive positioner control unit harness connector and door mirror harness connector.

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DOOR MIRROR MOTOR

< DTC/CIRCUIT DIAGNOSIS >

Automatic drive positioner control unit		Door r			
Connector	Terminal	Connector	Terminal	Continuity	
	12		10		
M75	23	D43	12	Existed	
	24		11		
assenger side]					
Automatic drive pos	sitioner control unit	Door r	Continuity		
Connector	Terminal	Connector	Terminal	Continuity	
	10		12		
M75	11	D3	11	Existed	
-	22		10	1	

4. Check continuity between automatic drive positioner control unit harness connector and ground. [Driver side]

Automatic drive po	sitioner control unit		Continuity
Connector	Terminal		Continuity
	12	Ground	
M75	23		Not existed
	24		

Automatic drive po	ositioner control unit		Continuity	
Connector	Terminal		Continuity	
	10	Ground		
M75	11		Not existed	
	22			

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to <u>ADP-112, "Removal and Installation"</u>. NO

>> Repair or replace harness or connector.

3.CHECK DOOR MIRROR MOTOR

Check door mirror motor.

Refer to ADP-96, "Component Inspection".

Is the inspection result normal?

- YES >> Check intermittent incident.Refer to GI-42, "Intermittent Incident".
- NO >> Replace door mirror motor.

Component Inspection

INFOID:000000009649688

1.CHECK DOOR MIRROR MOTOR 1

Check that door mirror motor does not trap foreign objects and does not have any damage. Refer to MIR-31, "Exploded View".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace door mirror.

2. CHECK DOOR MIRROR MOTOR 2

1. Turn ignition switch OFF.

Disconnect door mirror connector. 2.

Apply 12 V to each power supply terminal of door mirror motor terminals. 3.

ADP-96

DOOR MIRROR MOTOR

< DTC/CIRCUIT DIAGNOSIS >

A			Door mirror
	Operational direction	ninal	Tern
_		(-)	(+)
B	RIGHT	11	10
_	LEFT	10	11
C	UP	10	12
	DOWN	12	10

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace door mirror motor.

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SEAT MEMORY INDICATOR

Component Function Check

1.CHECK FUNCTION

1. Select "MEMORY SW INDCTR" in "Active test" mode with CONSULT.

2. Check the memory indicator operation.

Test item		Description		
	OFF		OFF	
MEMORY SW INDCTR	ON-1	Memory switch indicator	Indicator 1: ON	
	ON-2	-	Indicator 2: ON	

Is the operation of relevant parts normal?

YES >> INSPECTION END

NO >> Refer to <u>ADP-98</u>, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:000000009649690

INFOID:000000009649689

1.CHECK SEAT MEMORY SWITCH INDICATOR OPERATION

Check seat memory switch indicator operation.

Which is the malfunctioning indicator?

All indicators are NG>>GO TO 2.

An indicator is NG>>GO TO 4.

2.CHECK FUSE

1. Turn ignition switch OFF.

2. Check that the following fuse is not fusing.

Signal name	Fuse No.		
Battery power supply	10 (10 A)		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace the blown fuse after repairing affected circuit.

${f 3.}$ CHECK SEAT MEMORY SWITCH INDICATOR POWER SUPPLY

Check voltage between seat memory switch harness connector and ground.

(+)			
Seat men	nory switch	(-)	Voltage (V)	
Connector	Terminals			
D13	5	Ground	Battery voltage	

Is the inspection result normal?

YES >> Replace seat memory switch. Refer to <u>ADP-113, "Removal and Installation"</u>.

NO >> Repair or replace harness between seat memory switch and 10 A fuse [No.10, located in fuse block (J/B)].

4. CHECK SEAT MEMORY SWITCH INDICATOR CIRCUIT

1. Turn ignition switch OFF.

2. Disconnect driver seat control unit and seat memory switch connector.

3. Check continuity between driver seat control unit harness connector and seat memory switch harness connector.

SEAT MEMORY INDICATOR

< DTC/CIRCUIT DIAGNOSIS >

Driver seat control unit		Seat memory switch	Continuity
Connector		nector Termina	
B552	7 23	D13 7 6	Existed
eck continuity betwe	en driver seat control unit l	narness connector and g	ound.
	at control unit	_	Continuity
Connector	Terminal 7	Ground	
B552	23	-	Not existed

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

MANUAL FUNCTION DOES NOT OPERATE

ALL COMPONENT

ALL COMPONENT : Diagnosis Procedure

INFOID:000000009649691

1.CHECK DRIVER SEAT CONTROL UNIT POWER SUPPLY AND GROUND CIRCUIT

Check driver seat control unit power supply and ground circuit. Refer to ADP-58, "DRIVER SEAT CONTROL UNIT : Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunction parts.

2.CHECK AUTOMATIC DRIVE POSITIONER CONTROL UNIT POWER SUPPLY AND GROUND CIRCUIT

Check automatic drive positioner control unit power supply and ground circuit. Refer to <u>ADP-58, "AUTOMATIC DRIVE POSITIONER CONTROL UNIT : Diagnosis Procedure"</u>.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunction parts.

3. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u>.

NO >> GO TO 1.

POWER SEAT

POWER SEAT : Diagnosis Procedure

1.CHECK POWER SEAT SWITCH GROUND CIRCUIT

Check power seat switch ground circuit. Refer to ADP-74, "Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness or connector.

2. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u>.

NO >> GO TO 1.

SEAT SLIDING

SEAT SLIDING : Diagnosis Procedure

1.CHECK SLIDING MECHANISM

Check for the following.

- Mechanism deformation or pinched foreign materials.
- Interference with other parts because of poor installation.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunction parts.

2. CHECK SLIDING SWITCH

INFOID:000000009649692

< SYMPTOM DIAGNOSIS >	
Check sliding switch. Refer to ADP-60, "Component Function Check".	А
Is the inspection result normal?	
YES >> GO TO 3. NO >> Repair or replace the malfunction parts.	В
3. CHECK SLIDING MOTOR	
Check sliding motor. Refer to <u>ADP-87, "Component Function Check"</u> .	С
<u>Is the inspection result normal?</u> YES >> GO TO 4. NO >> Repair or replace the malfunction parts.	D
4.CONFIRM THE OPERATION	
Check the operation again.	Е
Is the result normal?	
YES >> Check intermittent incident. Refer to <u>GI-42. "Intermittent Incident"</u> . NO >> GO TO 1. SEAT RECLINING	F
SEAT RECLINING : Diagnosis Procedure	G
1.CHECK RECLINING MECHANISM	
 Check for the following. Mechanism deformation or pinched foreign materials. Interference with other parts because of poor installation. 	Η
Is the inspection result normal?	
YES >> GO TO 2. NO >> Repair or replace the malfunction parts.	
2.CHECK RECLINING SWITCH	ADP
Check reclining switch. Refer to <u>ADP-62, "Component Function Check"</u> .	K
<u>Is the inspection result normal?</u> YES >> GO TO 3.	
NO >> Repair or replace the malfunction parts.	I
3. CHECK RECLINING MOTOR	L
Check reclining motor. Refer to <u>ADP-89, "Component Function Check"</u> .	M
Is the inspection result normal?	
YES >> GO TO 4. NO >> Repair or replace the malfunction parts.	Ν
4. CONFIRM THE OPERATION	
Check the operation again.	0
Is the result normal?	0
YES >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u> . NO >> GO TO 1.	
SEAT LIFTING (FRONT)	Ρ
SEAT LIFTING (FRONT) : Diagnosis Procedure	
1.CHECK LIFTING (FRONT) MECHANISM	
Check for the following.	

Mechanism deformation or pinched foreign materials.

< SYMPTOM DIAGNOSIS >

• Interference with other parts because of poor installation.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunction parts.

2. CHECK LIFTING SWITCH (FRONT)

Check lifting switch (front).

Refer to ADP-64, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunction parts.

3.CHECK LIFTING MOTOR (FRONT)

Check lifting motor (front).

Refer to ADP-91, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunction parts.

4.CONFIRM THE OPERATION

Check the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u>.

SEAT LIFTING (REAR)

SEAT LIFTING (REAR) : Diagnosis Procedure

1.CHECK LIFTING (REAR) MECHANISM

Check for the following.

• Mechanism deformation or pinched foreign materials.

Interference with other parts because of poor installation.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunction parts.

2. CHECK LIFTING SWITCH (REAR)

Check lifting switch (rear).

Refer to ADP-66. "Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunction parts.

3.CHECK LIFTING MOTOR (REAR)

Check lifting motor (rear). Refer to <u>ADP-93, "Component Function Check"</u>.

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunction parts.

4.CONFIRM THE OPERATION

Check the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u>.

NO >> GO TO 1.

DOOR MIRROR

Revision: 2014 May

< SYMF	PTOM DIAGNOSIS >	
DOOF	R MIRROR : Diagnosis Procedure	INFOID:000000009649697
1. CHE	ECK DOOR MIRROR MECHANISM	A
MechInterfe	for the following. anism deformation or pinched foreign materials. erence with other parts because of poor installation.	В
YES NO	nspection result normal? >> GO TO 2. >> Repair or replace the malfunction parts.	С
	ECK DOOR MIRROR REMOTE CONTROL SWITCH	D
MirrorChange	door mirror remote control switch. Refer to following. r switch : Refer to <u>ADP-70, "MIRROR SWITCH : Component Function Check"</u> . geover switch : Refer to <u>ADP-72, "CHANGEOVER SWITCH : Component Function Ch</u>	eck". E
	nspection result normal?	
YES NO	>> GO TO 3. >> Repair or replace the malfunction parts.	_
~	ECK DOOR MIRROR MOTOR	F
	door mirror motor. D <u>ADP-95, "Component Function Check"</u> .	G
<u>Is the ir</u>	nspection result normal?	
YES NO	>> GO TO 4. >> Repair or replace the malfunction parts.	Н
4	VFIRM THE OPERATION	
	the operation again.	
	esult normal?	I
YES NO	>> Check intermittent incident. Refer to <u>GI-42. "Intermittent Incident"</u> . >> GO TO 1.	ADF
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MEMORY FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

MEMORY FUNCTION DOES NOT OPERATE	
ALL COMPONENT	
ALL COMPONENT : Diagnosis Procedure	INFOID:000000009649698
1.CHECK MANUAL OPERATION	
Check manual operation.	
Is the inspection result normal?	
YES >> GO TO 2.	
NO >> Repair or replace the malfunction parts.	
2. PERFORM INITIALIZATION AND MEMORY STORING PROCEDURE	
 Perform initialization procedure. Refer to <u>ADP-48, "Work Procedure"</u>. 	
 Perform memory storing procedure. 	
Refer to ADP-49, "Work Procedure".	
 Check memory function. Refer to <u>ADP-15, "MEMORY FUNCTION : System Description"</u>. 	
Is the inspection result normal?	
YES >> Memory function is normal.	
NO >> GO TO 3.	
3. CHECK SEAT MEMORY SWITCH	
Check seat memory switch.	
Refer to ADP-68, "Component Function Check".	
Is the inspection result normal?	
YES >> GO TO 4. NO >> Replace seat memory switch.	
4. CONFIRM THE OPERATION	
Confirm the operation again. Is the result normal?	
YES >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u> .	
NO $>>$ GO TO 1.	
SEAT SLIDING	
SEAT SLIDING : Diagnosis Procedure	INFOID:000000009649699
1.CHECK MANUAL OPERATION	
Check manual operation.	
Is the inspection result normal?	
YES >> GO TO 2.	
NO >> Refer to <u>ADP-100, "SEAT SLIDING : Diagnosis Procedure"</u>	
2.CHECK SLIDING SENSOR	
Check sliding sensor. Refer to <u>ADP-75, "Component Function Check"</u> .	
Is the inspection result normal?	
YES >> GO TO 3.	
NO >> Repair or replace the malfunction parts.	
3. CONFIRM THE OPERATION	
Check the operation again.	

Is the result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

ADP-104

MEMORY FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >	
NO >> GO TO 1. SEAT RECLINING	A
SEAT RECLINING : Diagnosis Procedure	
1. CHECK MANUAL OPERATION	В
Check manual operation.	
<u>Is the inspection result normal?</u> YES >> GO TO 2.	С
NO >> Refer to <u>ADP-101, "SEAT RECLINING : Diagnosis Procedure"</u>	
2.CHECK RECLINING SENSOR	D
Check reclining sensor. Refer to <u>ADP-77, "Component Function Check"</u> .	
Is the inspection result normal?	E
YES >> GO TO 3.	
NO >> Repair or replace the malfunction parts. 3.CONFIRM THE OPERATION	F
Check the operation again.	
Is the result normal?	G
YES >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u> .	
NO >> GO TO 1. SEAT LIFTING (FRONT)	Н
SEAT LIETING (EPONT) : Diagnosis Procedure	
1.CHECK MANUAL OPERATION	
Check manual operation.	
Is the inspection result normal?	ADF
YES >> GO TO 2. NO >> Refer to <u>ADP-101, "SEAT LIFTING (FRONT) : Diagnosis Procedure"</u>	
2. CHECK LIFTING SENSOR (FRONT)	Κ
Check lifting sensor (front).	
Refer to ADP-79, "Component Function Check".	L
Is the inspection result normal? YES >> GO TO 3.	
NO >> Repair or replace the malfunction parts.	M
3.CONFIRM THE OPERATION	
Check the operation again.	Ν
<u>Is the result normal?</u> YES >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u> .	
NO >> GO TO 1. SEAT LIFTING (REAR)	0
SEAT LIFTING (REAR) : Diagnosis Procedure	Ρ
1.CHECK MANUAL OPERATION	Ľ
Check manual operation.	
Is the inspection result normal? YES >> GO TO 2.	

NO

>> Refer to ADP-102, "SEAT LIFTING (REAR) : Diagnosis Procedure"

MEMORY FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

2.CHECK LIFTING SENSOR (REAR)

Check lifting sensor (rear).

Refer to ADP-81, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunction parts.

3. CONFIRM THE OPERATION

Check the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u>.

NO >> GO TO 1.

DOOR MIRROR

DOOR MIRROR : Diagnosis Procedure

INFOID:000000009649703

1.CHECK MANUAL OPERATION

Check manual operation.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to <u>ADP-103</u>, "DOOR MIRROR : Diagnosis Procedure"

2. CHECK MIRROR SENSOR

Check mirror sensor. Refer to following.

- Driver side : <u>ADP-83, "DRIVER SIDE : Component Function Check"</u>.
- Passenger side : <u>ADP-84, "PASSENGER SIDE : Component Function Check"</u>.

Is the inspection result normal?

- YES >> GO TO 3.
- NO >> Repair or replace the malfunction parts.

3.CONFIRM THE OPERATION

Check the operation again.

Is the result normal?

- YES >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u>.
- NO >> GO TO 1.

ENTRY/EXIT ASSIST FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

ENTRY/EXIT ASSIST FUNCTION DOES NOT OPERATE

Diagnosis Procedure	
1.CHECK SYSTEM SETTING	В
 Check system setting. Refer to <u>ADP-51, "Work Procedure"</u>. Check the operation. 	C
Is the inspection result normal?	
YES >> INSPECTION END NO >> GO TO 2.	D
2.PERFORM SYSTEM INITIALIZATION	
 Perform system initialization. Refer to <u>ADP-48, "Work Procedure"</u>. Check the operation. 	E
Is the inspection result normal? YES >> INSPECTION END NO >> GO TO 3.	F
3. CHECK FRONT DOOR SWITCH (DRIVER SIDE)	G
Check front door switch (driver side). Refer to DLK-241, "Component Function Check".	
Is the inspection result normal?	Н
YES >> GO TO 4.	
NO >> Repair or replace the malfunction parts. 4.CONFIRM THE OPERATION	I
Confirm the operation again.	
<u>Is the result normal?</u> YES >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u> . NO >> GO TO 1.	AD

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INTELLIGENT KEY INTERLOCK FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

INTELLIGENT KEY INTERLOCK FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000009649705

1.PERFORM INTELLIGENT KEY INTERLOCK STORING PROCEDURE

1. Perform Intelligent Key interlock storing procedure. Refer to <u>ADP-50, "Work Procedure"</u>.

2. Check the operation.

Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 2.

2. CHECK DOOR LOCK FUNCTION

Check door lock function. Refer to <u>DLK-165, "Work Flow"</u>.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunction parts.

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check the intermittent incident. Refer to GI-42, "Intermittent Incident".

NO >> GO TO 1.

MEMORY INDICATE DOES NOT OPERATE

< SYMPTOM DIAGNOSIS > MEMORY INDICATE DOES NOT OPERATE	
Diagnosis Procedure	A
	INFOID:000000009649706
1. CHECK SEAT MEMORY SWITCH INDICATOR	В
Check seat memory switch indicator. Refer to <u>ADP-98, "Component Function Check"</u> .	
Is the inspection result normal?	C
YES >> GO TO 2. NO >> Repair or replace the malfunction parts.	
2. CONFIRM THE OPERATION	D
Confirm the operation again.	
Is the result normal?	E
YES >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u> . NO >> GO TO 1.	
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< SYMPTOM DIAGNOSIS >

NORMAL OPERATING CONDITION

Description

INFOID:000000009649707

The following symptoms are normal operations, and they do not indicate a malfunction.

Symptom	Cause	Action to take	Reference page
	No initialization has been performed.	Perform initialization.	ADP-48, "Description"
Entry/exit assist function do not operate.	Entry/exit assist function is disabled. NOTE: Entry/exit assist function is set to ON be- fore delivery (initial setting).	Change the settings.	ADP-51, "Description"
Entry assist function does not operate.	Manual operation with power seat switch was performed after exit assist function execution.	Perform the entry as- sist function.	ADP-18, "ENTRY AS- SIST FUNCTION : Sys- tem Description"
Lumbar support does not per- form memory operation.	The lumbar support system are con- trolled independently with no link to the automatic drive positioner system.	_	SE-13, "POWER SEAT SYSTEM : System De- scription"
Memory function, entry/exit as- sist function, or Intelligent Key in- terlock function does not operate.	The operating conditions are not fulfilled.	Fulfill the operation conditions.	Memory function : ADP-15, "MEMORY FUNCTION : System Description"
			Entry assist function : ADP-18, "ENTRY AS- SIST FUNCTION : Sys- tem Description"
			Exit assist function : ADP-17, "EXIT ASSIST FUNCTION : System Description"
			Intelligent Key interlock function : <u>ADP-19, "IN-</u> <u>TELLIGENT KEY IN-</u> <u>TERLOCK FUNCTION :</u> <u>System Description</u> "

REMOVAL AND INSTALLATION DRIVER SEAT CONTROL UNIT

Removal and Installation

REMOVAL

- 1. Remove driver seat. Refer to <u>SE-102</u>, "Removal and Installation".
- 2. Remove screws (A), and then remove driver seat control unit (2) from seat cushion frame (1)

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2)		D
		E
	JMJIA4721ZZ	F

INSTALLATION

Install in the reverse order of removal. **NOTE:**

After installing the driver seat, perform additional service when replacing control unit. Refer to <u>ADP-47</u>, <u>"Description"</u>.

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AUTOMATIC DRIVE POSITIONER CONTROL UNIT

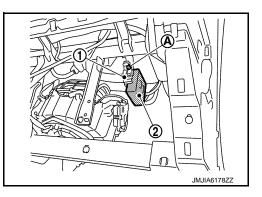
< REMOVAL AND INSTALLATION >

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

Removal and Installation

REMOVAL

- 1. Remove instrument lower panel RH. Refer to <u>IP-14, "Removal</u> <u>and Installation"</u>.
- 2. Remove screw (A), and then remove automatic drive positioner control unit (2) from bracket (1).



INSTALLATION

Install in the reverse order of removal.

NOTE:

After installing the driver seat, perform additional service when replacing control unit. Refer to <u>ADP-47</u>, <u>"Description"</u>.

< REMOVAL AND INSTALLATION >

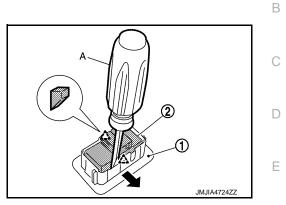
SEAT MEMORY SWITCH

Removal and Installation

REMOVAL

- 1. Remove front door finisher. Refer to <u>INT-14</u>, "Removal and <u>Installation"</u>.
- 2. Press pawls and remove seat memory switch (1) from switch finisher (1) using remover tool (A).

<u>ר_</u>: Pawl



INSTALLATION Install in the reverse order of removal.

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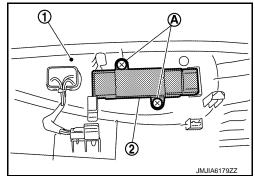
< REMOVAL AND INSTALLATION >

POWER SEAT SWITCH

Removal and Installation

REMOVAL

- 1. Remove seat cushion outer finisher. Refer to <u>SE-108</u>, "SEAT <u>CUSHION : Disassembly and Assembly"</u>.
- 2. Remove screws (A), and then remove power seat switch (2) from seat cushion outer finisher (1).



INSTALLATION Install in the reverse order of removal.